

**PRESIDENT'S REVIEW
& ANNUAL REPORT
1993**

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THE ROCKEFELLER FOUNDATION
1993 ANNUAL REPORT

The Foundation

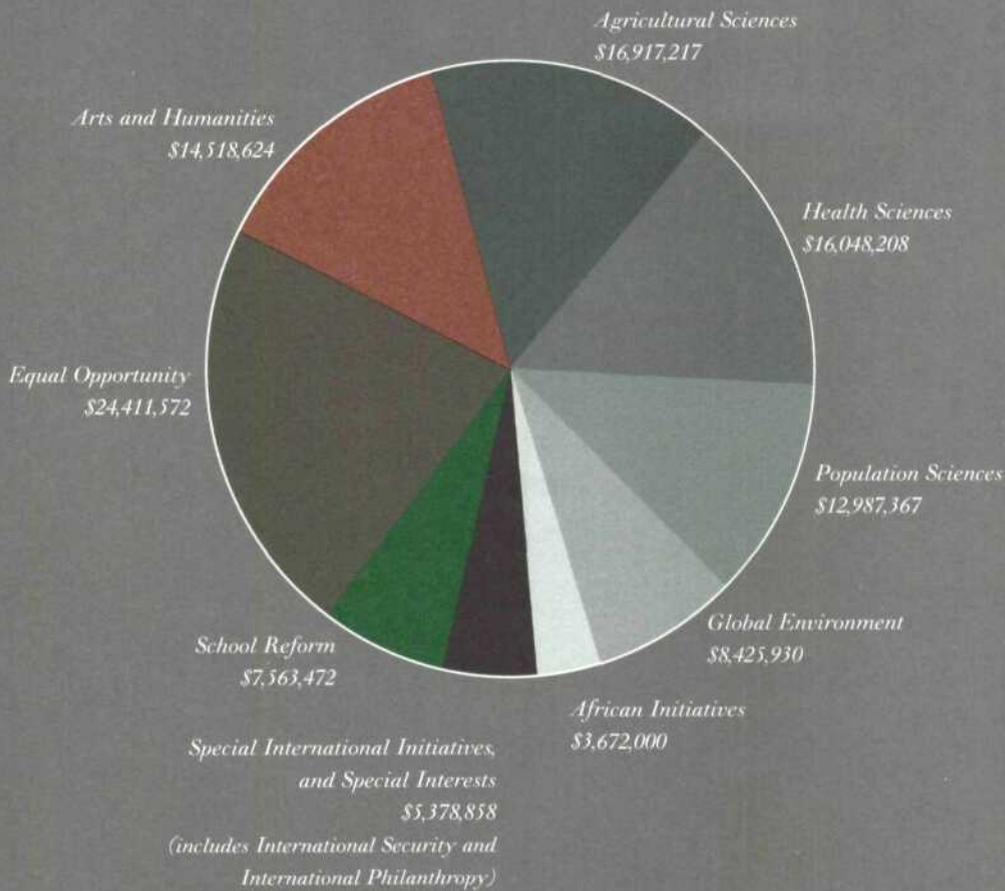
The Rockefeller Foundation is a philanthropic organization endowed by John D. Rockefeller and chartered in 1913 “to promote the well-being of mankind throughout the world.” It is one of America’s oldest private foundations and one of the few with strong international interests. From the beginning, it has sought to identify, and address at their source, the causes of human suffering and need.

While concentrating its efforts on selected programs with well-defined goals, the Foundation adjusts its course to reflect needs and opportunities as they arise. Its work lies in three principal areas: international science-based development, the arts and humanities, and equal opportunity. Within science-based development, the focus is the developing world, with emphases on the global environment; the agricultural, health, and population sciences; and several special African initiatives.

The balance of the Foundation’s grant and fellowship programs support work in U.S. school reform, international security, international philanthropy, and other special interests and initiatives. Moreover, the Foundation maintains the Bellagio Study and Conference Center in northern Italy for conferences of international scope and for residencies for artists, scholars, policymakers, and other professionals from around the world.

The Foundation is administered by its President through a staff drawn from scholarly, scientific, and professional disciplines. An independent Board of Trustees, which meets four times a year, sets program guidelines and financial policy and approves all appropriations. Information about applying for grants and fellowships begins on page 130.

*International Science-Based
Development Programs*
\$58,050,722



This chart depicts — by program and division — the grants, appropriations, program related investments and fellowships approved in 1993 totalling \$109,923,248.

The President's Letter

It seems possible that one hundred years hence historians will describe the end of the 20th century as a transitional period between the industrial and the information ages.

The Rockefeller Foundation takes as its central concern helping to define and pursue a path toward sustainable development consistent with individual rights and a more equitable sharing of the world's resources.

A transitional period between two different ages may well be treacherous ground from which to think afresh about either. The Rockefeller Foundation takes as its central concern helping to define and pursue a path toward sustainable development consistent with individual rights and a more equitable sharing of the world's resources. For this institution, then, there is no escape from the struggle to understand the forces that are reshaping the definition of that task.

As happens so often in the human experience, reality has lurched far ahead of existing categories of analysis and present institutional frameworks. What trends are changing the force field within which we work?

Transnational Flows

With the enormous excess in industrial capacity that exists around the world and the emergence of global capital markets, there remain few barriers to the ability of modern production enterprises to move easily and frequently in search of the most advantageous conditions. With capital mobile and energy cheap (the latter almost certainly a temporary phenomenon), the availability, quality, reliability, "disposability" and cost of labor become critical variables for profit-driven enterprises. The character of modern information-age "work" gives an enormous advantage to areas with high-skill, low-wage labor pools; and it penalizes traditional, industrial-age manufacturing bases which retain significant numbers of low-skill, high-wage jobs. Bangalore, India, and Guangdong, China, "win," while Gary, Indiana, and Magnitogorsk, Russia, "lose."

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The new information-age pattern of economic activity is marked by the generation and manipulation of pieces of information at lightning speed and in mind-boggling magnitudes, and by the acceleration and decentralization of decision cycles. In the office of the senior U.S. government official who oversees American intervention in the international exchange markets sits a computer terminal connected to the three major commercial international financial data systems; the terminal also displays a special government-run data service that relays key information moments before it is released to the commercial services. Seconds have consequences measured in billions of dollars.

The word "international" means "among nations." But what is more astonishing than the fluid state of post-cold war international relations is the emergence of transnational flows: the movement across national boundaries of people, natural resources, wealth, technology, disease, narcotics, ideas, entertainment, information, weapons, and jobs.

The capacity of the nation state to manage economic forces will remain for some time the front line in the struggle to address poverty and discrimination.

Nation States as Custodians of the Safety Net

The process of adaptation to these changes will be managed, for the most part, through the institutions and resources of the nation state, itself a part of the age which is now passing. The capacity of the nation state to manage economic forces may be rapidly overwhelmed by the pressures of the emerging global economy, but it will remain for some time the front line in the struggle to address poverty and discrimination.

Nothing is less fair or more explosive than a situation that makes opportunity inaccessible to some in the face of enormous and evident wealth for others.

The welfare state safety net, frayed and weak in the United States, stronger but more costly in Europe and Japan, has been strained and torn throughout the industrialized democracies by pressures of migration and economic change that do not respect borders. The safety net will have to be redesigned, fundamental ideas of public social responsibility reconceived, and a new social contract written in a form consistent with the imperatives of a competitive global economy. How do we begin to think about that task in America?

In the past, when the rules for the creation of value added and the operation of economic enterprises were more fixed and less fluid, it made more sense for public policy wishing to address problems of access or racial barriers to focus primarily on legal mechanisms for including, or “affirming in,” those excluded from opportunity. The problem was then defined as one of admitting the excluded to an economic and social system that appeared to possess virtually unlimited prospects for growth and could confer prosperity on anyone willing to work hard and play by its rules.

Today the most neglected central problem in America is that of jobs and advancement for the poor who seek work.

Today the situation is different. Far more than hard work is required. Social skills and higher levels of literacy, numeracy, and familiarity with technology are necessary. And the grim process of “restructuring,” “downsizing,” “global sourcing” and all the other euphemisms for wrenching change associated with the transition to the information age, are likely to continue for decades, creating a treacherous, unpredictable world for the worker and for the poor and the uneducated who all too often meet a door slammed in their face.

Today the most neglected central problem in America is that of jobs and advancement for the poor who seek work. We live in a world where some enjoy immense and visible wealth. Nothing is less fair or more explosive than a situation that makes opportunity inaccessible to some in the face of enormous and evident

Opportunities must exist for her as part of our social contract, or the economic and social forces which so often leave the Ronnie Greens behind, will keep her behind and will generate our own insane brand of apartheid here in America.

wealth for others. As John Maynard Keynes taught us, a full-employment economy is the only economy which both seems fair and offers hope to everyone. And it is important to keep in mind the stakes attached to this issue; here we are talking about far more than just “work.” As the sociologist William Julius Wilson reminds us, employment provides “the framework for daily behavior and patterns of interaction.”

And so we have today a “system” of employment that is closed to some, does not provide significant advancement opportunity to the working poor, does not stimulate broad-based economic growth, and is perceived by many as unfair. This adds up to a clear warning that our situation requires careful analysis and an aggressive search for a better way.

On the important issue of schools we are one step further along. Our system of public education in America—the institutions and pathways by which our society readies its young for work and social responsibility—finds itself engaged in an enormous adventure in self-examination and reform. Here, at least, the problem is widely recognized and well analyzed. By many absolute indicators, such as percentage of enrollees graduating, the nation’s public schools are doing better than they did 10 or 20 years ago. But they have been chasing a moving target. On the whole the American public education system is more divorced from the operations and requirements of the new information age than it was from those of the industrial age. We have drifted into a dangerously bifurcated pattern of public education: one, a system of middle class schools educating students in communities with a comfortable tax base, the other, a violent, drug- and death-infested battleground where little learning occurs.

Ronnie Green is a fourth grader in a public school in the Brownsville section of Brooklyn, one of New York City’s poorest neighborhoods. Her favorite subject is math. She would like to do more homework than her teachers assign her in that subject and in others. In the critical areas of education and work, what are her prospects? Her school is on the watch list of those with declining performance standards, and in her world, very few get jobs that pay enough to support a family. What should words like “equity” and “opportunity” mean? They must mean that Ronnie Green can get an education that will stretch her and nurture her; and they must mean that there will be a good job out there for her if she works hard for it. Those opportunities must exist for her as part of our social contract, or else the economic and social forces which so often leave the Ronnie Greens behind, will keep her behind and will generate our own insane brand of apartheid here in America.

I have talked with Ronnie Green. She is keeping her part of the bargain. She is a smart, serious student. The rest of us—society, our institutions, and through them we as individuals—are not keeping our part of the social contract, we are not making sure that Ronnie finds a road to growth, education and work. Today she faces limits and barriers. What will she and we face tomorrow if we do not start to change now?

Defining Responses in the Public and Private Sector

To address these emerging realities will require a conception of government's job that is quite different both from the romantic interventionism of the 1960's and from the minimalist doctrine of the 1980's. Defining the role and orientation of government in a free society is never more difficult than during a period of transition from one social and economic pattern to the next.

The task for American students of social and economic policy is to cast aside dogma, tradition, and seductive slogans and to fashion pragmatically a broad strategy which

- mobilizes investment capital to help create both a high level of effective demand and improved productivity and competitiveness,
- creates a structure of job opportunities and social supports which enables all those expected to work to join the mainstream economy,
- institutes tax and other incentives which moderate the tendencies of unrestrained market capitalism to produce untenable extremes of wealth and poverty,
- reinvigorates our public school system to build the human capital necessary for a modern workforce and a society with ample stocks of social capital, and
- puts investment capital and the support of government incentives and public services behind community building efforts which generate and reinvest social capital.

These tests correspond to major deficiencies of the present American economic and social system. We are borrowing too heavily for operating needs and investing too little to stimulate broad economic growth and productivity. Many who want to work cannot find work or cannot do it. We are locking far too many

We are borrowing too heavily for operating needs and investing too little to stimulate broad economic growth and productivity.

out of the education required for the next century and we have a system in which the rich get richer and the poor get poorer, thus eroding the confidence of all in the rules of the game and denying the economy the vital stimulus of broad-based consumer demand.

To address this is a tall order, and any reasonable plan is likely to appear expensive from the limited perspective of the present, myopic budget debate. But we are at last beginning to sense in both our public dialogue and our private experience the far greater cost we and our children will bear for the failure to put in place a broad strategy to respond to this challenge.

The Foundation's Response

These implications and the broad outlines of the new economic context force us to think afresh about the issues of equity, basic rights, and the construction of social capital.

We are at a point where we can discern generally the new challenges to these timeless values:

- The transition to an information-age economy exacerbates the isolation within the United States and elsewhere of those who live in persistent poverty, are uneducated, or suffer discrimination.
- The transition to a global economic system reduces the effectiveness of compensatory systems and safety nets embedded solely in the nation-state, and spurs the search for approaches that can operate effectively within the emerging global context.
- The migrations, conflicts and cultural collisions that are part of a world of transnational flows require new frameworks for understanding differences among peoples, religions, and cultures and new avenues for cooperation across those differences.

Against this background, the Foundation has broadened the focus of its Basic Rights program in the U.S. to reflect the increasing diversity of America, and asks its grantees to consider what aspects of their concerns may emerge as universal rights which transcend the immediate limits of a national boundary or a specific judicial system.

The evidence is present all around us that other impulses and patterns influence human behavior. We have seen these darker patterns in the recent past in Cambodia and in South Africa—and we see them today.

Paul Scott writes of our desire to focus on the rational and the manageable and to avoid the unknowable and the intractable. He writes sardonically of “that liberal instinct which is so dear to historians that they lay it out like a guideline through the unmapped forests of prejudice and self-interest as though this line, and not the forest, is our history.”

Against this background, the Foundation will support analysis and experimentation which test new ways to connect those in persistent poverty with the world of work, education, and opportunity

Against this background, the Foundation will support the development of “social capital” to allow poor communities in the U S to help themselves, and will seek out in the U S and abroad innovative efforts to build bridges of communication and understanding among those of differing ethnicity, gender, religion, and culture

Cooperation in the Face of Divisiveness

The new flows of people and resources have already caused upheaval in old values and old patterns of trade and production, and they will undoubtedly cause more in the future. We have yet to replace the old patterns with new ones that we can recognize

An observer from another culture would probably say that much of what an American foundation undertakes in this regard typifies the liberal, western traditions of rationalism and instrumentalism. We diagnose problems and mount efforts to address them, these efforts are often conceived and judged according to their apparent rationality. And yet the evidence is present all around us that other impulses and patterns influence human behavior. We have seen these darker patterns in the recent past in Cambodia and in South Africa. And we see them today in other places where there are few signs of hope and cooperation—in Bosnia, in South Central Los Angeles, Somalia, Kashmir, Sri Lanka, and in Georgia, Armenia, the Sudan, and Tibet

Our trustee Robert Maynard, who died of cancer in 1993, was at work on a book tentatively called *Fault Lines*, in which he wrote about divisions of class, race, gender, geography, and generation in this country. These same fault lines, particularly if we add religion, occur around the globe, and their seismic forces have been released and felt anew as the grip of cold war superpower alignment has relaxed and then evaporated

Foundations have a special obligation to take on the most difficult issues, and these “fault lines” are surely among them.

Bob Maynard encouraged us in the development of a new strategy tentatively called “Understanding Diversity in Changing Societies.” This work will support efforts to understand and address these deep divisions, and is now the unifying theme of the Arts and Humanities division. This work will be enormously difficult, and it certainly will not lead to easy or early success. But in a world that has become more porous, more interdependent, more fragile, and by every measure more vulnerable to human activity, it is important to support groups and individuals willing to work to transcend these divisions. Foundations have a special obligation to take on the most difficult issues, and these “fault lines” are surely among them.

In *A Division of the Spoils*, the last volume of *The Raj Quartet*, Paul Scott writes of our desire to focus on the rational and the manageable and to avoid the unknowable and the intractable. He writes sardonically of “that liberal instinct which is so dear to historians that they lay it out like a guideline through the unmapped forests of prejudice and self-interest as though this line, and not the forest, is our history.” Bob Maynard wanted us to be active in this less easily mapped domain as well as to be engaged in the rethinking of economic and social policy.

And so the task at the close of this century is, ironically, the same as that Keynes discerned early in the century: to set in motion “those forces of instruction and imagination which change opinion. The assertion of truth, the unveiling of illusion, the dissipation of hate, the enlargement and instruction of men’s hearts and minds, must be the means.”



Program Goals

Foundation programs are organized around nine core strategies aimed at the goals listed in the first column at left, *below*. Taken together, these strategies constitute a commitment to help define and pursue a path to environmentally sustainable development consistent with individual rights and a more equitable sharing of the world's resources

Goal toward which program strategies contribute:	Annual Program Budget:	Unit:
International		
1 Mobilization for Unmet Demand <i>Help ensure availability of quality reproductive health and family planning services to all women in developing world over the next decade</i>	\$12 million	Population Sciences
2 Crop Yield <i>Increase food production in selected developing countries—20% increase in rice productivity and 50% increase in maize productivity by 2005</i>	\$15 million	Agricultural Sciences
3 Population-Based Health Care <i>Increase quality and equity of health outcomes with preventive and accessible care by 2005 in developing countries</i>	\$12 million	Health Sciences
4 Female Education <i>Close the gender gap in school enrollment and achievement in sub-Saharan Africa by 2005</i>	\$1 million	African Initiatives
5 Leadership for Environment and Development <i>Train next generation of leaders in multi-disciplinary approaches to environmentally sustainable development.</i>	\$5 million	Global Environment
International & Domestic		
6 Understanding Diversity in Changing Societies <i>Support efforts to understand diversity and to bridge differences in race, geography, gender, generation, and religion.</i>	\$9 million	Arts and Humanities
7. Energy Transition <i>Develop models for environmentally sustainable and economically efficient patterns of energy use</i>	\$4 million	Global Environment
Domestic		
8 Jobs/Community Building <i>Create job opportunities and community supports that enable all those who can work to join mainstream economy</i>	\$7 million	Equal Opportunity
9 School Reform <i>Reform US public school system to enable full integration of "at-risk" youth into society</i>	\$4.5 million	School Reform

The ship of rock America

1. Ed Purson —



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"We have crippled ourselves for participation in the global arena by the fact that large sections of our society have been left out of the process of national growth and development. We saw those left out people when the freeway fell. We discovered that their compassion was the same as that of any other American. They are indeed a part of our community and a part of our nation."

But they are a neglected part of our nation. We in the news media have done our share of the neglecting, both by failing to include a variety of people from all backgrounds in our newspapers and by failing to report properly on our whole community."

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Robert C. Maynard, 1937-1993

He was a giant in the world of journalism and public affairs; he was a pathbreaker.

His insights guided us, his encouragement steadied us, his caring
and his ideals stirred us.

— ~~W. L. Campbell~~
Don Algeron
Rockefeller Foundation Trustee, 1984-1993

my family
love Rodis

"I believe the overarching weight of the Cold War held certain passions in check. As the fear and the weight of doomsday wear away, we will see more and deeper challenges to our moral authority.

This, I believe, will be evidenced at home and abroad, near and far. The end of the Cold War and the onset of a new century, indeed a new millennium, have combined to place a marker in the sands of time.

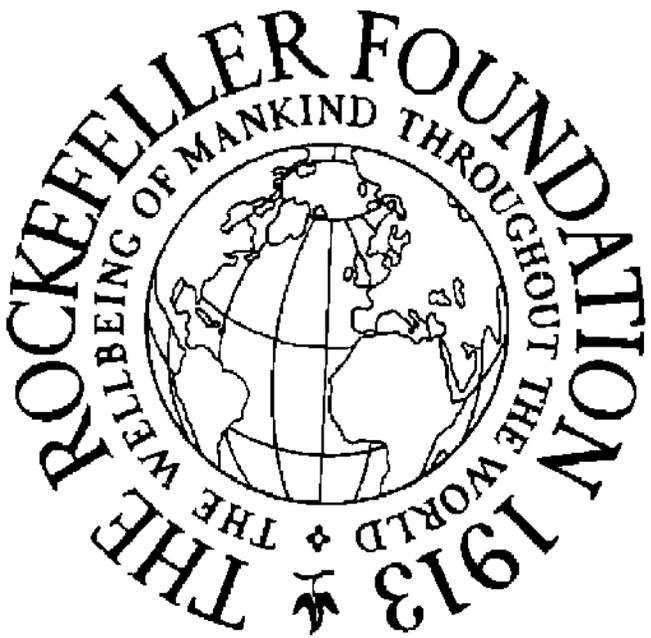
A new moral order has three basic elements:

First, human dignity for all. Second, genuine equality of opportunity for all. Third, a search for the realization of a true American community.

I think these three quests are best seen in the light of our enormous and sometimes peace-shattering social fault lines."



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Photograph Excised Here

"The goals of sustainable development can be realized. Research shows that when females are educated, the socioeconomic returns multiply rapidly and cumulatively, and tangible returns accrue to the individual, she rationalizes her household economy and learns more effective ways to manage natural resources—which helps to preserve the global environment. When she applies her knowledge to agriculture, food production improves. As she improves hygiene and nutrition practices and uses health services more effectively, fertility and child mortality decrease, while life expectancy and overall living standards increase."

Dr. Makazuwe Mandela

African Academy of Sciences

Kenya

*INTERNATIONAL PROGRAM TO SUPPORT
SCIENCE-BASED DEVELOPMENT*

International Program to Support Science-Based Development

The Foundation's Science-Based Development program assists developing countries in providing the essentials of modern life—food, health, education, family planning, and economic development—in ways that serve their citizens as well as benefit the environment we all share.

Global Environment

The next 50 years represent a critical stage in the relationship between humans and their environment. It is time for us, the fortunate and feckless inheritors of the planet Earth and its bounty, to change our spendthrift ways. This conviction is at the core of the Foundation's Global Environment division. Without widespread adoption of environmentally sound, equitable approaches to development, the world faces grave ecological threats. In the last decade, a multitude of global, national, and local efforts have been launched to promote sustainable development, all impelled by a shared sense of urgency. The Foundation's own efforts are focused on the development of the human capital and promising energy technologies crucial to sustainable development.

The Foundation supports an expanding network of distinguished mid-career professionals through Leadership for Environment and Development (LEAD). Since 1992, 176 professionals drawn from an array of disciplines and careers in Brazil, China, India, Indonesia, Mexico, Nigeria, and the former Soviet Union have entered the program as LEAD Associates in cohorts of 10-15 Associates per country. Over a two-year period, Associates participate in 16 weeks of seminars, workshops, and field visits in their own countries and at international sites with their colleagues from the other LEAD countries.

LEAD Associates attend an international orientation session held in May at EARTH College in Costa Rica. Participants travelled across the country and analyzed various development sites in order to discuss strategies for national development with Costa Rican leaders.



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Sixty one percent of the developing world's population participates in agricultural work for sustenance. Here, workers at this organic training farm in Kenya learn one technique of sustainable agriculture as they mulch the land. Mulching the soil inhibits weed growth and in great part supplants the need for herbicides that beyond damaging the environment, are not always readily available.

"Environment and development are not widely recognized as important issues in a developing country such as India. The LEAD orientation in Costa Rica was inspirational: when I met an international community committed to the principles of sustainable development, it validated my feeling that what I do as a journalist, what we're each doing on this path, really matters."

Seema Paul
Journalist, The Bombay News
LEAD Associate India



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Information Officers from the seven LEAD countries meet for training on use of the Internet system. Within the year, all seven member countries will be linked to one another on a continuous basis, thereby strengthening LEAD's global network in the ongoing effort to create paths to environmentally sustainable development.

Upon graduation, outstanding Associates are eligible for up to two years of additional support as LEAD Fellows. The first group of LEAD Fellows, to be selected this year, are candidates to receive funding for projects which build on the skills and knowledge they have acquired as Associates. They will also qualify as candidates for internships with international organizations active in the environment and development field. All LEAD Associates and Fellows will also be linked through the LEADNet, an international computer network that will enable them to communicate with one another as well as introduce them to the rich array of information resources available on the Internet.

To ensure that LEAD promotes the global dialogue that is essential to worldwide support and action for sustainable development, the program will soon be initiated in additional developing countries and regions as well as in Japan and the developed countries of North America and Western Europe.

If there is to be environmentally sound and sustainable development, prevailing patterns for the production, generation, and use of energy must change. Heavy reliance on fossil fuels and wasteful consumption have resulted in a grievously damaged natural environment and unacceptable levels of pollution which, if unchecked, threaten the survival of millions of species. To this end, the Foundation is supporting a portfolio of projects in both developing countries and the U.S. The Foundation's efforts, notably in developing countries, focus on support at an early stage for relatively small-scale, technologically sophisticated projects which have the potential to attract private investment. Projects which have received funding include:

THAILAND—King Mongkut's Institute of Technology in Bangkok has developed an energy-efficient process for composting cane trash at its School of Bioresources.

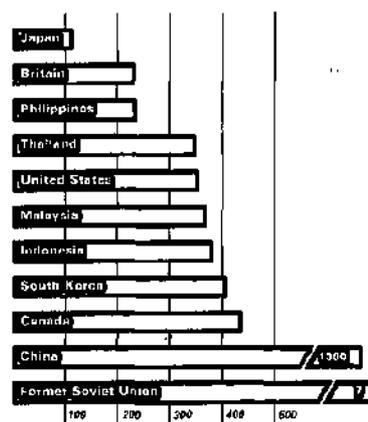
COSTA RICA—Energia Global de Costa Rica, S.A., is a company that designs and introduces conservation, cogeneration, and renewable-resource technology to increase energy efficiency while reducing greenhouse gas emissions. The company is retrofitting the Dos Piños milk processing plant with waste heat recovery equipment and will, in consultation with the Foundation, reinvest a portion of the resulting revenue in similar projects throughout Central America.

ZIMBABWE—Africare supports the development of a solar-powered light assembly plant to manufacture photovoltaics for continental export. The project will create industrial jobs in a predominantly agricultural area and generate much needed foreign exchange. In the project's second phase, a portion of the revenues will be used to (1) bring solar electricity to rural clinics and schools, and (2) make loans to local businesses which service or manufacture renewable energy products.

CARIBBEAN—Solar Energy, Inc., is preparing a two-megawatt demonstration plant in Jamaica to show that solar heating can reduce the cost of power produced through ocean thermal energy conversion, a benign but presently uneconomical technology, by 84 percent.

Energy Inefficiency

Energy Consumption (equivalent in tons of oil)
Per \$ Million of GDP



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At King Mongkut's Institute of Technology in Bangkok, Thailand, sugarcane tops discarded during harvest are used as compost.



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In California, solar panels harness a plentiful and renewable source of energy.

The Energy Foundation, established jointly by the John D. and Catherine T. MacArthur Foundation, the Pew Charitable Trusts, and the Rockefeller Foundation to support energy initiatives in the United States, made 57 grants totalling \$4.3 million this year. Three-quarters of the Energy Foundation's allocations went to grantees working to reform policies and practices in transportation and utilities.

Among the projects supported by the Energy Foundation were:

—The Texas Environmental Defense Fund (TEDF), which won a court ruling preventing Texas Utilities from building three new power plants. TEDF is now negotiating with the utility, the state's largest, to supply new demand from renewable sources and increased efficiency. In collaboration with another Energy Foundation grantee, Texas Legal Services, TEDF has also persuaded the company to offer lower rates and to design new energy efficiency programs for low-income customers

—The Center for Energy Efficiency and Renewable Energy Technology, which has secured a commitment from California's major utilities to buy a minimum of 300 megawatts produced from renewable resources, equivalent to a medium sized fossil fuel plant. This represents the largest single renewable resource acquisition in the last decade. Total offers received by the utilities from renewable energy providers far exceeded 300 megawatts, suggesting that these private sector providers are capable of supplying a significant share of California's demand.

—The Tri-State Transportation Campaign, which is exploiting the opportunities created by recent federal legislation to encourage improved mass transit in New York, Connecticut and New Jersey. This fall, the campaign helped the New York Metropolitan Transportation Authority secure funds for a mass transit rebuilding program.

Tri-State Transportation Campaign for the NY/NJ/CT Region

Objectives

- Provide fair access
- Restore local community identity
- Protect public safety and health
- Conserve land and open space
- Improve energy efficiency

Means to achieve these objectives:

- Spend transport funds strategically
- Repair and expand the system
- Increase rail freight shipments
- Repair and maintain highways
- Encourage cycling and walking
- End taxpayer subsidies to motor vehicles
- Foster regional transportation planning



"Where cassava is widely grown, famine rarely occurs."

Sunday A. Folayan
Collaborative Study of Cassava in Africa
Nigeria



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Agricultural Sciences

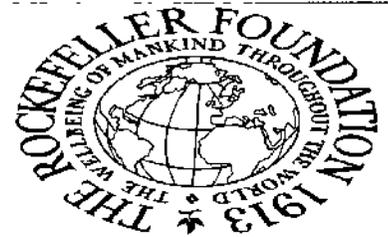
A major emphasis in the Foundation's Agricultural Sciences program seeks to develop and disseminate crop biotechnology so that farmers in Asia, Africa, and Latin America can meet their nations' food needs into the next millennium. The program was launched in the belief that without a well-supported and carefully conceived effort, crop biotechnology would not be introduced in developing countries as quickly as necessary; moreover, a well-devised project—linking agricultural researchers in the developing countries with their counterparts in the industrial world—could make significant gains.

The Foundation initiated its effort in rice biotechnology in Asia in 1984—with the goal of increasing rice production by 20 percent over the next decade on acreage that has shown a disappointing low yield since 1975. The Agricultural Sciences initiative has trained more than 160 Asian agricultural scientists who, in collaboration with researchers in industrial countries, have genetically engineered new rice plants resistant to the most virulent viruses and insects in their African, American, and Asian habitats. Several of the new strains are undergoing final greenhouse testing prior to their field trials. In addition, an infrastructure for training the next generation of in-country experts and researchers has been established, most significantly in China, and is expanding throughout the developing world.

In keeping with a mid-term review of the rice project conducted in 1993 by Dr. David E. Bell, professor emeritus of population sciences and international health at Harvard University, Cambridge, Massachusetts, and Dr. Bryan D. Harrison, professor of plant virology at Dundee University, Dundee, Scotland, the Foundation will continue its support for new technologies, for new laboratories in the developing world, and for international agricultural research centers.

New varieties of rice being developed under the program are expected to dramatically increase harvests over the next decade. The new strains should feed 100 million more people than is presently possible, and 150 million additional people within 20 years.

Advances are also being realized with other developing world staple crops. In cooperation with the International Institute of Tropical Agriculture, in Nigeria, among other agencies, the Foundation is funding a promising initiative to enhance the value of cassava cultivation in 15 African nations. Once regarded as a backstop crop to tide the rural poor over in "hungry seasons," cassava has emerged as a nutritional and commercial mainstay in sub-Saharan Africa. It has become both a

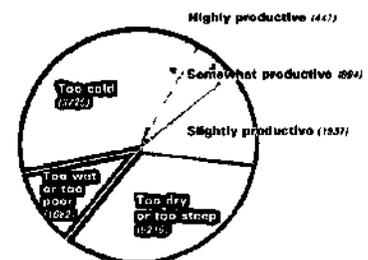


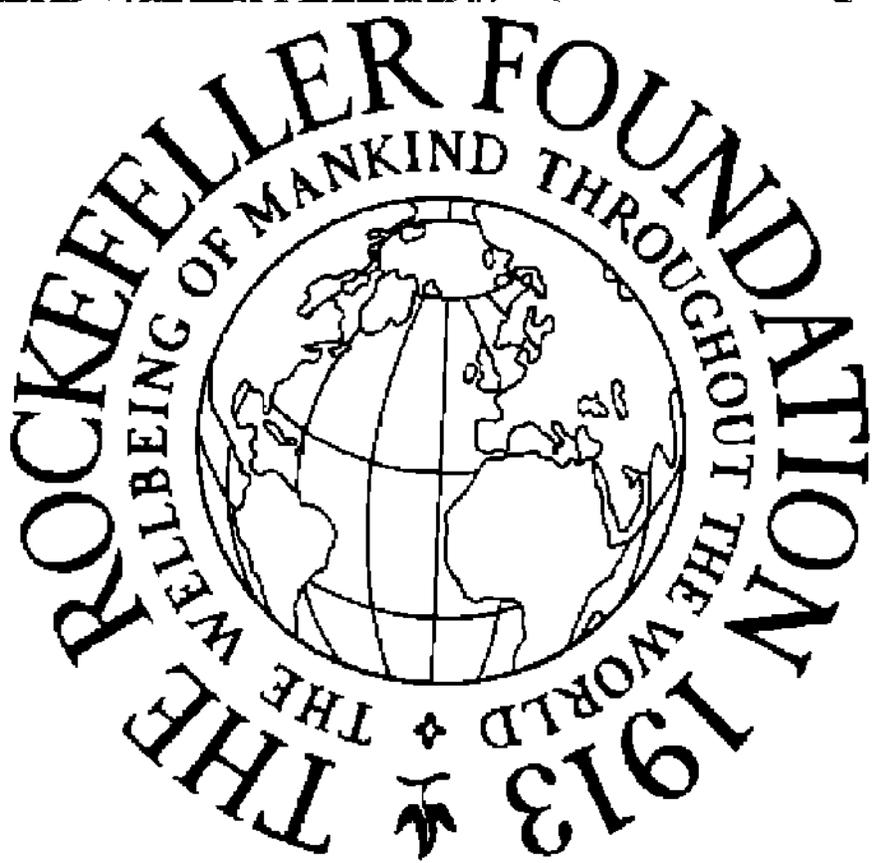
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Two reasons that cassava was formerly neglected as a possible staple in urban areas were its awkward size and shape—it was too cumbersome to transport and store—and it spoiled quickly. Today, cassava-processing technologies have overcome these problems, contributing to the remarkable success of the root as a mainstay crop in sub-Saharan Africa.

Agricultural Potential of Global Land

Potential Crop Productivity
(million hectares)





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In 1949, these rice paddies helped to feed the Philippine people, then a nation of 19 million. Today's population has more than tripled, while the amount of arable farmland has remained constant. Advances in rice biotechnology will permit the nation to continue to feed itself without (1) expanding agricultural land in production, and (2) environmental degradation.



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In places such as Nepal, scientists use rice tissue culture as the basis for applying biotechnology to improve local rice production.



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dietary staple for almost 200 million people in the region and an important cash crop. This change, documented by the Collaborative Study of Cassava in Africa (COSCA), generates income for the farmers and new jobs in processing, packaging, and marketing cassava products. Initially launched in the Côte d'Ivoire, Ghana, Nigeria, Tanzania, Uganda, and Zaire, the project has been extended to nine other nations, from Burundi to Zambia, and now covers countries that produce 70 percent of Africa's cassava harvest.

The Agricultural Sciences program has also fostered partnerships linking academics, non-governmental organizations, and small farmers in an effort to introduce new technologies in natural resource management to marginal agricultural areas. In 12 *ejidos* scattered across Mexico's poorest arable land, teams of small landholders, NGOs, and Mexican scientists are developing models for sustainable agriculture intended to improve the health and economic standing of the farmers and to halt further depletion of the soil and watershed. These cooperative ventures, supported by initial Foundation grants of \$50,000 to \$100,000, are in areas largely ignored by the Mexican government which has focused on the country's more fertile land.

In another direction, a small Foundation grant supported an initiative of the Monsanto Corporation and the Center for Research and Advanced Studies of the National Polytechnic Institute of Mexico to engineer virus resistance into Mexico's leading potato strain. Monsanto donated both the genes and the biotechnology

"Rice plants are susceptible to attack by several insects, such as striped stemborers, yellow stemborers, and leaf-folders, which can cause enormous loss in crop yields. Since no effective natural resistance has been found, biotechnology offers a very promising strategy for controlling these pests."

Dr. Fan Yun-hu
Director, Biotechnology Research Center
Chinese Academy of Agricultural Sciences
China

"We have seen a tendency to address a woman's health only at specific, sometimes very short, periods in her life: during pregnancy, at delivery, or when she is too sick to perform her normal domestic chores. In planning ways to respond to her unmet health needs, which reflect the cumulative effects of her life, we would be wiser to look at her in her totality."

Dr. Florence W. Manguvu
President Elect/MWIA
Kenya

necessary for virus resistance in the Alpha potato, grown in Mexico primarily by small farmers who cannot afford chemical control of the viruses' insect vectors. After Foundation-funded training at Monsanto, Mexican scientists transferred the genes into Alpha plants, successfully field-tested the transgenic plants at a Monsanto facility, and are now preparing field tests locally.

The Tropical Soil Biology and Fertility Programme (TSBF) in Kenya, received Foundation funding for field research in soil biology at a network of sites in Kenya, Zambia, and Zimbabwe. With funding from other donors, TSBF enables experienced soil scientists to work with national agricultural research institutes and universities in Africa. Together, they are studying the biological processes that occur in tropical soil to improve the yields of important crops.

Health Sciences

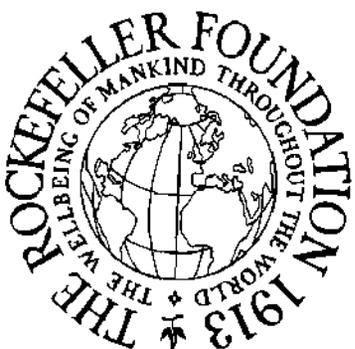
Augmenting research and international cooperation, to decrease the burden of disease, marks the Foundation's efforts in improving human health in the developing world. INCLLEN, the International Clinical Epidemiology Network, begun by the Foundation in 1980 to aid developing countries in the study and treatment of diseases among their populations, continued to mature as an independent organization with an international board and staff. Its 11th annual meeting drew 358 participants to Cairo in the last week of January, 1993. Approximately 270 abstracts were presented (out of 400 received), and a new emphasis emerged on medical ethics. Special sessions on teaching methodologies and reproductive health research were both well-attended and compelling.

The Children's Vaccine Initiative (CVI), the ambitious collaboration begun in 1991 by the United Nations Development Programme, UNICEF, the World Health Organization, the World Bank, and the Foundation, made major strides toward its ultimate objective, of a "one shot" oral vaccine against all infections which are preventable through immunization.

Comprehensive mid- and long-term plans were completed in March, as well as a call for a new measles vaccine, which, by eluding maternal antibodies, can protect infants most vulnerable to fatal infections. Mission reports from 14 countries on near-term improvements to the quality and supply of the vaccine were reviewed with enthusiasm at a May meeting in Cairo. In July, "The Children's Vaccine Initiative: Achieving the Vision," a study by the National Academy of Science's Institute of Medicine, offered a valuable analysis of CVI's first 18 months.

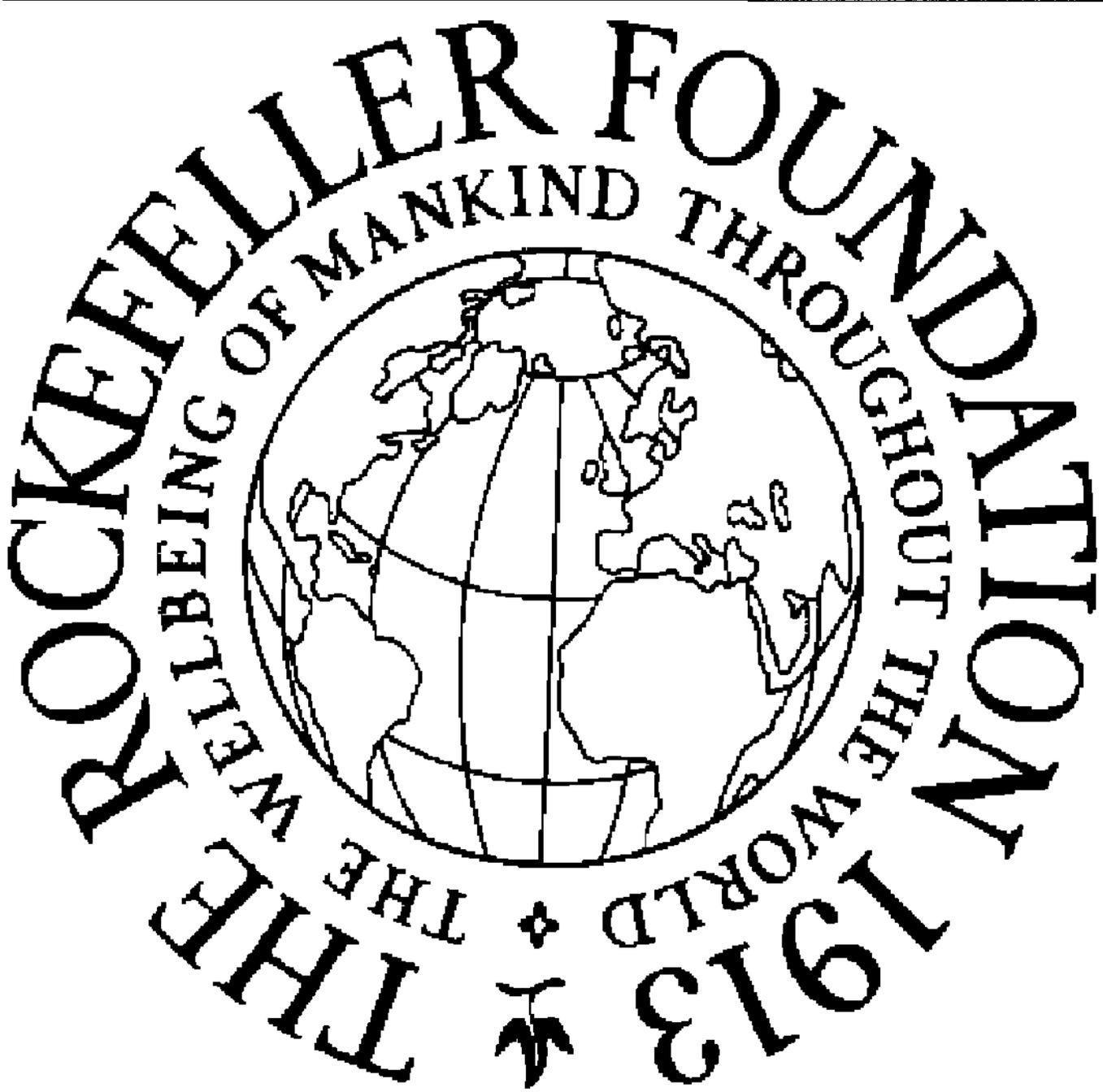
The prospect of a vastly improved vaccine for diphtheria-pertussis-tetanus emerged in September from the first conference between the Pan American Health Organization and Western manufacturers. Finally, in November, 300 participants attended a CVI conference in Kyoto. Inspired by a \$1 million gift from a prominent Japanese businessman, a group of his countrymen pledged to raise \$300 million more.

The increasingly urgent problem of HIV/AIDS and other sexually transmitted diseases (STDs) was the subject of two prominent Foundation efforts—one just completed, the other just begun. The completion of one effort came in Paris in December, when, after two and one half years of effort, the Foundation united nine



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Foundation efforts across two divisions, Health Sciences and Population Sciences, attempt to break down the traditional compartmentalization of health care services in Africa. Women at this Kenyan clinic wait to see a health care provider at a full-service facility, and at right, at the same clinic, a child receives an oral polio vaccine and is weighed, while her mother looks on.



THE WORLD 1913

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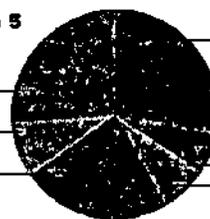
Deaths Under Age 5

By cause, in thousands

Pneumonia (3560)

Other (970)

Pari- and neonatal (2470)



Measles (880)

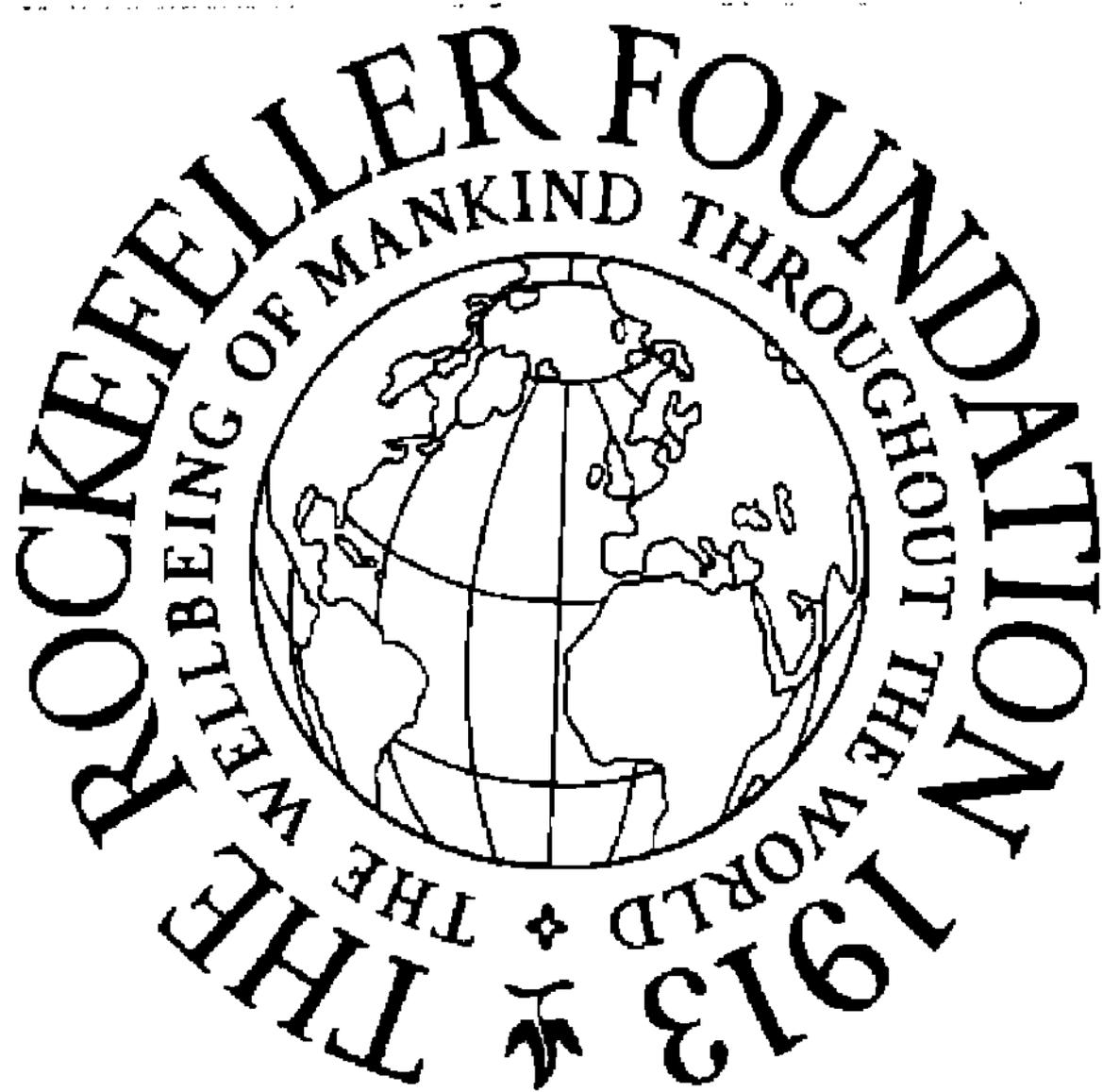
Whooping cough (360)

Neonatal tetanus (560)

Diarrheal diseases (3000)

Tuberculosis (300)

Malaria (600)

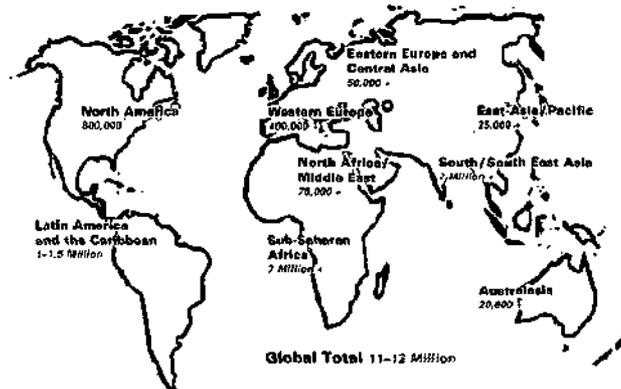


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Although the prevalence of HIV infection in the sub-Saharan African population now exceeds that of the rest of the world, present trends indicate that Asia will soon face infection rates as high, if not more so. Above, two people in Thailand with HIV who are among the estimated 600,000 infected in that country.

Estimated Prevalence of HIV Infection in Adults

As of late 1993





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major donor agencies in the International HIV/AIDS Alliance. The object of the Alliance is to provide money and technical assistance to developing country NGOs engaged in HIV/AIDS prevention and care. At a time of severe cuts in foreign aid, the Paris meeting proved a welcome surprise, as national organizations such as ODA (Britain), SIDA (Sweden), USAID, and the French Ministry of Cooperation joined the European Union, OECD, and WHO in pledging more than \$5 million for the project's first three years. Headquartered in London, the Alliance has already established operations in Burkina Faso and the Philippines, plans to add five more countries in its first year, and 14 by the end of its third.

In addition to the successful launching of the Alliance, new possibilities are presented by the Foundation's other STD effort—the STD Diagnostics Challenge. As a result of work conducted this year, the Foundation plans to offer the Rockefeller Science for Development Prize, \$1 million, for the development of a rapid, reliable, inexpensive and simple test for the diagnosis of both chlamydia and gonorrhoea that can be utilized in field conditions in the developing world.

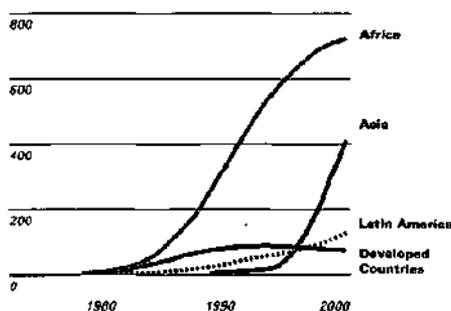
The aim of the Prize—announced in widely read publications ranging from *The Washington Post* to *Science*, *The Economist* to *The Lancet*—is to encourage researchers from science, academia, and industry to focus their efforts in this area and to heighten public awareness of the estimated 250 million new STD infections that occur each year.

The lives of everyone affiliated with the Kenya AIDS Society Clinic, pictured above, have been directly affected by the HIV infection in some way. In efforts to cope with the burden of this disease, the people who run this self-help organization provide a full range of services to AIDS victims and their families, which include treatment, counselling, condom education and distribution, home care, and feeding programs.

Below, a tempera and ink wall poster at the Kenya AIDS Society Clinic.

Estimated Trends in Incidence of AIDS

By region (in thousands)



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"Where formal strategies for HIV/AIDS prevention and control are failing to reach or affect the attitudes and behavior of the population at the local community level, NGOs can make a critical difference through activities that promote health care, counselling and social support."

Dr. Ekanem Ewu-Williams
University of Calabar
Nigeria



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A Brazilian woman receives the single rod UNIPLANT[®], which inhibits fertility for up to one year. With a pregnancy rate of zero during the present research phase, UNIPLANT[®] is an important alternative to Norplant which consists of six rods and protects a woman for five years.



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This one and one half inch UNIPLANT[®] rod is made of silastic tubing with norgestrel acetate. Insertion by a physician is through a small incision in a woman's upper buttock.

At right, a patient receives reproductive health counselling at a clinic in Nairobi, part of a population-based health care strategy that focuses on the community's women and children. A wall chart records the usage of Norplant for patients regulating their fertility in planning their families.

Population Sciences

The Population Sciences division seeks to enhance reproductive choice in the developing world and support developing countries in establishing population policies and implementing effective family planning programs.

It is heartening to note that voluntary family planning services have proliferated in developing countries over the past 25 years. The proportion of women in the third world who use some form of contraception has risen from eight percent in 1965 to well over 50 percent today. According to the United Nations Population Fund, the average number of children has dropped from 6 to 3.9 per family. But much remains to be done. The U.N. and the World Bank estimate that each year as many as 53 million women resort to induced abortion—and risk their lives—because other forms of family planning are not at hand.

The goal is to stabilize the world population at 10 to 12 billion people over the next decade. In order to achieve it, the 125 million women who would use contraception to space and limit their children must have access to reliable methods and services. The Population Sciences program's approach to addressing this challenge is illustrated by four examples:

First, it is encouraging contraceptive development research. Grants to the Chinese Academy of Sciences and the National Institute of Nutrition in Mexico City seek to apply new advances in biotechnology to fertility regulation. Grants to the University of Arizona, the Population Council, and Rush-Presbyterian-St. Luke's Medical Center are supporting the research for female-controlled barriers that are effective against sexually transmitted infections.

Second, the Foundation is seeking to stimulate more private investment in contraceptive development. A study of the pharmaceutical industry's approach to marketing contraceptives in different countries and contexts is being conducted by the Program for Appropriate Technology in Health, while the Institute of Medicine of the National Academy of Sciences is exploring opportunities for the public and private sectors to collaborate in biotechnology research.

Third, the Foundation is funding efforts to improve existing reproductive health services in sub-Saharan Africa and South Asia, regions where fertility is high, the population is young, and reproductive health services, including the prevention and treatment of sexually transmitted diseases, is all too often unavailable to unmarried or childless women.

Finally, in October 1993, as part of its effort to stimulate policy dialogue on population questions, the Foundation convened the first Bellagio Forum on Population and Development at its conference center in Italy. Among the delegates were high-level representatives from China, Egypt, Indonesia, Mexico, Uganda, the United Kingdom, the United States, and Zimbabwe. Foundation grants will also assure that participants at the 1994 United Nations Conference on Population and Development have the latest information on these issues.

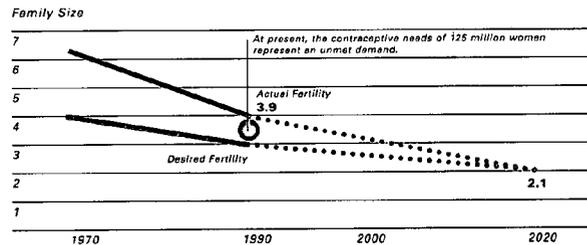


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The Road to Population Stabilization



The chart shows the remarkable progress that has been made in the population field over the past 25 years—and the challenge that lies ahead. The average number of children per family in the developing world has declined from six to less than four, or halfway to “replacement level”—the number needed for eventual population stabilization. The gap between desired and actual fertility has been narrowed from two children to one, but it hasn’t been closed: for some 125 million women there is still an “unmet demand” for contraception.



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The Handspring Trust in Johannesburg, South Africa uses these well-known puppet characters to teach children the practical applications of science and math in a famous television show, Spider's Place. The actors in this photograph show life-sized puppet self-portraits which carry the lessons throughout the country's rural areas and townships.

African Initiatives

Enriching educational opportunities, from primary schools to graduate schools—remains at the center of the Foundation's African Initiatives program.

Under the auspices of the Donors to African Education (DAE) Task Force, the Foundation serves as the secretariat for a working group on female education, whose objective is to close the gender gap in enrollment and performance—especially at the primary and secondary school levels. Through the African Academy of Sciences, ten DAE agencies are supporting a competitive regional research grants program designed to determine the causes for the low enrollment and high drop-out rates of school-age girls and to assess the effectiveness of various interventions.

The Forum for African Women Educationalists (FAWE), an international non-government organization (NGO) based in Nairobi, Kenya, comprising 27 women cabinet ministers and university vice chancellors from 21 countries, has been a strong influence on the education policies in African countries. The Forum seeks to eliminate gender bias in African education and to that end, to mobilize local and international resources. FAWE is examining the roles of NGOs in promoting education for girls as well as supporting efforts to enrich girls' education, particularly in science and math.

The Foundation will buttress this activity through the work of the African Forum for Children's Literacy in Science and Technology which supports innovative programs both in and out of school that build on popular culture to present scientific and technical material.

If the continent's children are to be prepared to manage the future wisely, then they must understand the practical applications of science and technology in their everyday lives. Through the competitive disbursement of small grants, the Foundation has supported in 17 countries a broad range of approaches. These include a hands-on science summer camp in Zanzibar, a publication on health and the environment for primary school children in Zimbabwe, a classroom-based paper recycling project where children produce exercise books, maps, charts, and globes in Malawi, and a puppetry project whose characters bring lessons in science and technology to school-age children in South Africa's townships.

Africa's need for professional economists is acute, and the African Economic Research Consortium provides research and training opportunities that universities in Africa are currently unable to offer. Building on earlier work by Canada's International Development Resource Centre, the consortium was launched in 1988 by the Foundation and nine other donors. It funds research teams in 25 sub-Saharan countries and a variety of training fellowship programs.

In 1993, the Foundation's African Initiatives supported the development of a post-graduate program in science and engineering at the University of Cape Town, South Africa, to foster cooperation with universities in Zimbabwe, Kenya, Uganda, and Tanzania, and other African countries. The initiative is designed to lessen the flow of professors from African countries to South African universities.

"We hope to bridge the gap between the science taught in school and the science that is practiced in everyday life in order to develop future citizens who possess a greater awareness of the impact of science and technology in their daily lives."

Dr. J. Anamuah-Mensah
University of Cape Coast
Ghana



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Members of the African Economic Research Consortium confer on matters of economic policy.

"Women constitute two thirds of the illiterate population in Africa. Illiteracy is generally associated with under-development; thus it is necessary that educationalists and researchers evolve innovative strategies for accelerating female education even within the prevailing economic constraints."

Dr Eddah Gachukia
Executive Director
Forum for African Women Educationalists
Kenya



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At the Katwanyaa Primary School in Kenya, left and center, young girls are engrossed in the study of mathematics



"As FAWE members, we act as a body of policymakers looking into the policies and politics of female education. Yet we are practical people who cannot merely theorize. Our mission through FAWE is to give a potential situation reality."

Fay Chung
Minister of State for National Affairs
Zimbabwe

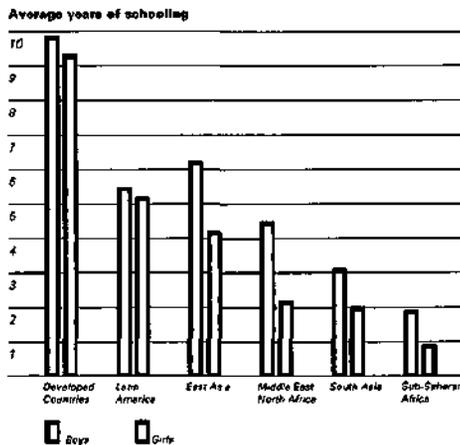
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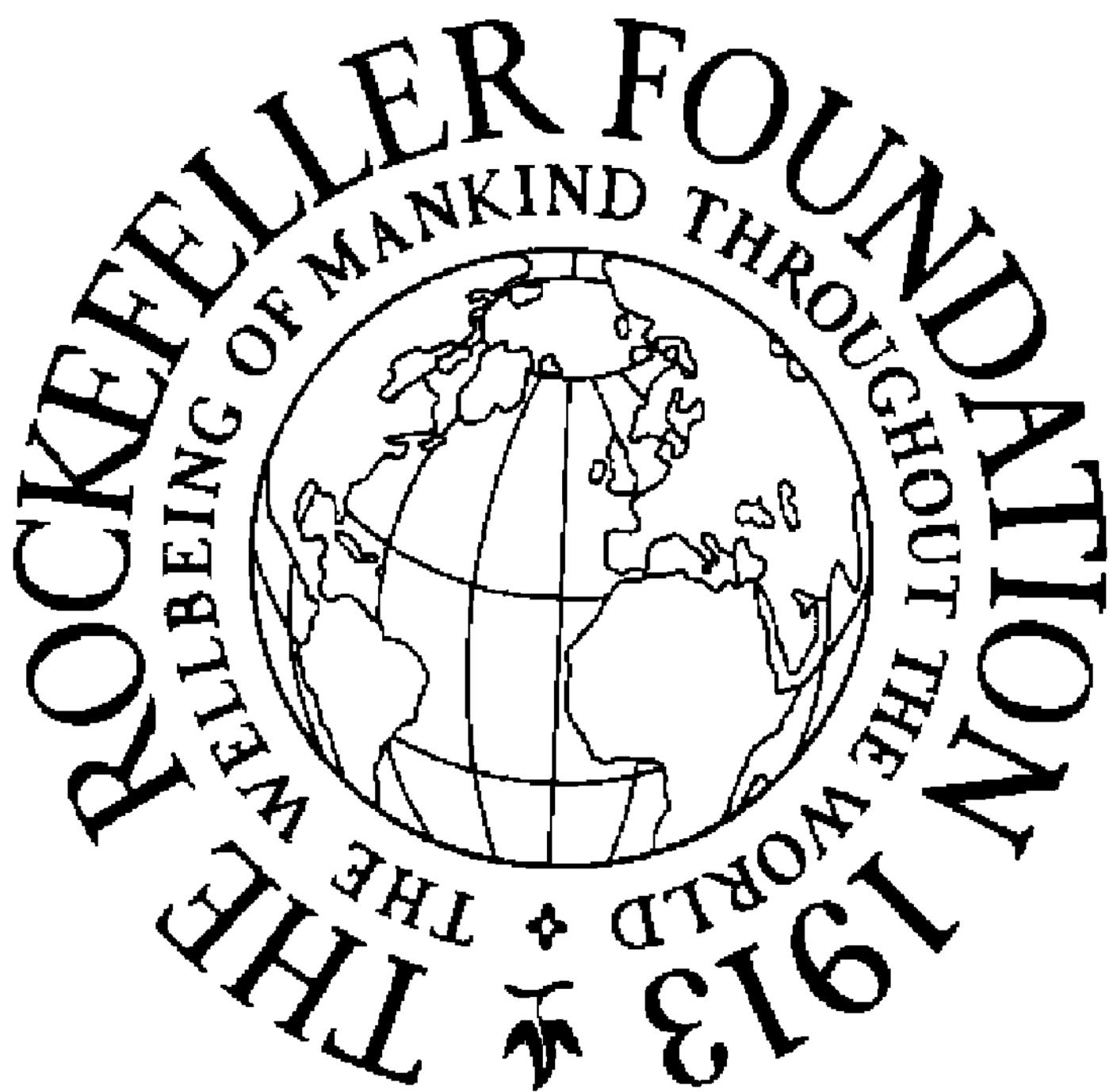
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Above, female secondary school students attend class. Across Africa, girls, on average, comprise only 45 percent of the student body at the primary school level and 34 percent at the secondary school level, and they tend to drop out in the later years of primary school at a higher rate than do boys.

Gender Gap in Educational Attainment
By region



The disparity in rates of schooling and enrollment by gender is most significant and persistent in Africa and South Asia.



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"We are divided along five great and perilous fault lines: race, class, gender, generation and geography. As each or all of these fissures deepens, our position as a world leader is threatened—threatened from within. Fault lines, both geological and social, cannot be filled in or papered over. You cannot change them. Instead, we must celebrate our diversity as our strength. The American community, at its finest, embodies the achievement of a healthy accommodation of our differences."

Robert C. Maynard

ARTS AND HUMANITIES

Arts and Humanities

Over the last six years, the Foundation's Arts and Humanities division has encouraged creative artists and scholars in the humanities. In response to the enormous and challenging changes occurring in many parts of the world, the division charted a new direction in its work in 1993.

The blessings of the post-cold war era have been decidedly mixed. The political storms that have swept the globe since the fall of the Berlin Wall have brought fragmentation as well as liberation, reviving old conflicts and stirring new ones, among peoples within and across national borders. The pursuit of peace, order, justice, and the other prerequisites of sustainable development will require changes in statecraft. But such changes alone, as Vaclav Havel has noted, are not sufficient: "The best laws and the best-conceived democratic mechanisms will not in themselves guarantee legality or freedom or human rights—anything in short for which they were intended—if they are not underpinned by certain human and social values."

To encourage these values—here and abroad—the Arts and Humanities division is refining its mission to emphasize those concepts at the heart of a society: autonomy, pluralism, and tolerance. Believing that the challenges of politics and governance cannot be met without an understanding of the cultural imperatives that drive them, the division has undertaken a new initiative, "Understanding Diversity in Changing Societies." Its goal is to develop the human and cultural capital needed to promote the understanding of diversity and the building of models and structures for achieving change. Thus, the Foundation has undertaken an investigation of the ways in which the arts and humanities can enhance the ability of social groups to empower themselves.

Three Foundation programs in Africa illustrate the connection between the development of cultural institutions and the enhancement of civil dialogue. The Strengthening African Radio program enjoys the broadest and largest audience on the continent. Although often forced to battle against government censorship and manipulation, the medium is winning, particularly in West Africa.

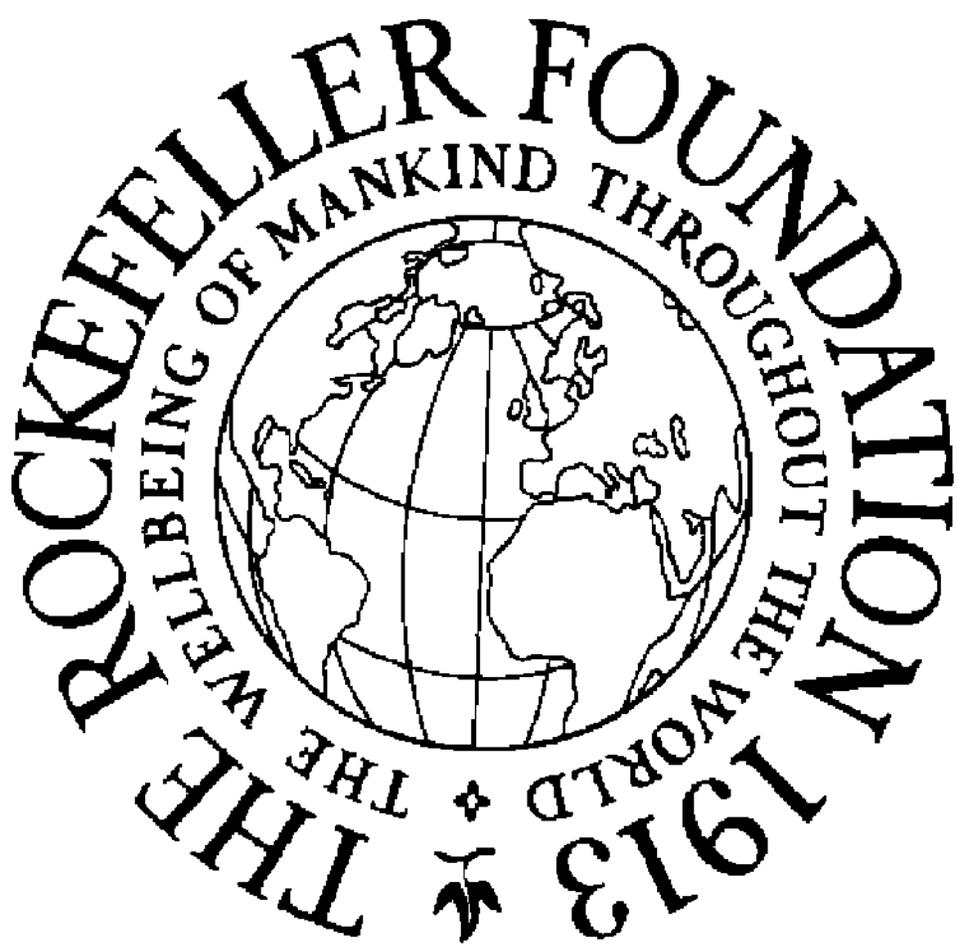
"In other words, there is a third world in every first world and vice versa."

Trinh Minh-Ho
Film-maker/Scholar
U.S.A.



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*At the Market Theatre
in Johannesburg, South Africa,
far right, students from the
townships and performers
rehearse for an upcoming
dance performance,
left and above.*



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"We regularly speak of civil society in the singular: a civil society, not multiple civil societies. And the issues that are most pressing for us today are global: peacekeeping, the ideological vacuums of the post-cold war era, ecological problems, the emergence of supra-national corporations. We need, then, to take a fresh look at the relation between civil society and national sovereignty."

Professor Eduardo Rabassa
Former Humanities Fellow
University of Buenos Aires
Argentina



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A display of the titles released by one African book publisher, East African Publishers Limited, supported by a Foundation program, Strengthening African Publishing



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Materials from an archive of Afro-Brazilian and Brazilian-Jewish cultures in Rio de Janeiro, Brazil serve as a resource for Latin American scholars

Similarly, the Strengthening African Publishing program provides backing to independent African publishers. After a brief boom in the early seventies, publishing on the continent has declined to the point that many countries, especially south of the Sahara, are suffering "book famines." Joining with other donors, the Foundation seeks to foster a revival of the publishing industry, and has set up training programs and exchanges among publishers across the continent.

A number of African museums are seeking to add interpretations of the present to their traditional role as conservators of the past. The Foundation is supporting both the West African Museum Project and the South African Development Coordination Conference Association of Museums in the planning and training for this expanding role.

Applying the concept of "social capital" to urban issues, economic development and democratic governance will be the focus of a two-year study using the intellectual resources of the American Academy of Arts and Sciences.

In a new exploration, the Foundation supports cultural and intellectual institutions in Muslim societies that are working on issues of pluralism and cultural diversity. In partnership with the Aga Khan Trust for Culture, the Foundation has convened a series of international seminars to explore the roles that cultural institutions play in different societies.

In another broad set of initiatives to fortify connections across communities, Arts and Humanities has also sustained its interest in inter-American programs. The U.S.-Mexico Fund for Culture, a partnership of the Rockefeller Foundation, the Bancroft Cultural Foundation in Mexico, and the National Foundation for Culture and Arts of Mexico, made grants in the performing arts, museums and visual arts, libraries, literature, media arts, and cultural studies, with particular emphasis on border issues. The Intercultural Film/Video Fellowship program, co-sponsored by the MacArthur Foundation and the Lampadia Foundation, funded the work of artists in the U.S., Brazil, Chile, Mexico, and Uruguay for projects transcending national boundaries.

In the performing arts, La Red Latinoamericana de Productores Independientes de Arte Contemporaneo, an 11-country network of Latin American artists and producers, brought provocative contemporary performances by 14 companies and 176 artists to intra-continental audiences of 25,000 people. The Music of the Americas project increased intercultural artistic experimentation. Its residency and collaborative exchange of U.S. and Latin American composers enhanced the North-South musical dialogue and produced a double compact disk of computer music. A complementary grant supported the American Composers Orchestra's *Sonidos de las Americas* (Sounds of the Americas) festival, bringing the work of Mexican composers to U.S. audiences.

The Resident Humanities Fellowships are the Foundation's principal means of supporting scholarship that illuminates international and intercultural issues in a variety of disciplines. Currently, visiting scholars are researching and writing at 26 sites here and abroad. An international advisory panel participated in the selection of nine new institutions in Brazil, Mexico, the U.S., and Canada to join the program. After a decade of strengthening scholarship on gender, race, and ethnicity, the program is moving toward funding more comparative work which explores conflicts and connections across communities.



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Left, materials from the library of the late Mexican architect, Luis Barragan. Shown here among his books is an illustrated dedication of one, by its author, contemporary British artist David Hockney

Above, members of the Guadalajara "school" of architects gather for a rare group portrait. The central figure, Barragan, a great bibliophile, is represented in absentia, by one of his own books on architecture



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Two artists affiliated with the Foundation sponsored US Mexico Fund for Culture in Mexico City. At left, one artist poses in the Fund's cathedral exhibition space headquarters and at right, another in his rooftop studio



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Pictured above, is David White, founder of New York City's Dance Theater Workshop, a community based organization that sponsors more than 500 emerging and established performing artists and companies throughout the United States. White is also the founder of the Suitcase Fund, a long-time Foundation grantee that supports professional artists working independently. The Fund encourages artists and producers to cross cultural frontiers, whether literal or conceptual, in an effort to foster a broad social and political context for the global communication of cultural ideas.



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Indu Krishnan, *Knowing Her Place*
(color video, 40 minutes)

Scenes from works by video artists who won film-making grant awards from the Foundation's Intercultural Film/Video Fellowship program.



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Valerie Soe, *Black Sheep*
(color video, 5 minutes)

"As a video artist, I am convinced that it is important not only to continually critique the media's powerful yet often limited images of many in our society—Afro Americans, Arabs, Iranians and Latinos—but also to produce alternative images and expressions of our nation's plurality. There is so little work on Middle-Eastern women. In my experimental documentary, I illustrate the multi-faceted lives of Iranian women through interviews, using poetry, music, and literature that reflect the customs and cultures from which they come."

Simone Farkhondeh
Who Gives Kisses Freely From Her Lips
(color video, 60 minutes)
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Vincent Carelli,
Meeting Ancestors
(color video, 22 minutes)



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"Neighborhoods plagued with high levels of joblessness are more likely to experience problems of social disorganization. The two go hand in hand, joblessness triggers other problems—from crime, gang violence, and drug trafficking to family breakups and other issues—that adversely affect social organization."

*Professor William Julius Wilson
University of Chicago
U.S.A.*

EQUAL OPPORTUNITY

Equal Opportunity

The Equal Opportunity division is dedicated to *attacking* persistent poverty in urban America and to preserving and protecting the basic rights of minority Americans.

It is disheartening to note that in a period of national prosperity, the number of people living in dire urban poverty more than doubled during the past two decades. We now confront the new face of poverty: younger, urban, less-educated—for whom the traditional escape route via stable, low-skilled, but living-wage jobs became narrowed and even blocked altogether.

Structural changes in the American economy, coupled with global restructuring, have precipitated the sharp decline in the availability of urban blue collar manufacturing jobs, once the only hope for workers with a high school diploma or less. Inadequate educational opportunities, obstinate racism, pernicious discrimination, and inflation-eroded income support programs have each contributed to this dismal trend.

Social deterioration has also played a crucial part. Institutions that once contributed to a vibrant community have withered or joined the flight of middle-class families from the inner cities. Too often, those left behind have become even more isolated and estranged—not only from the larger society but also from each other.

We know that there is no “magic bullet,” no single strategy, intervention, or program that will quickly and visibly address all of these problems. Instead, it will take a long, concerted national effort to reverse the complex set of social and economic factors that exacerbate chronic urban poverty. Thus, the Equal Opportunity division’s historic commitment to the plight of America’s urban poor will increasingly focus on strengthening the intersection of work and community in blighted urban neighborhoods.

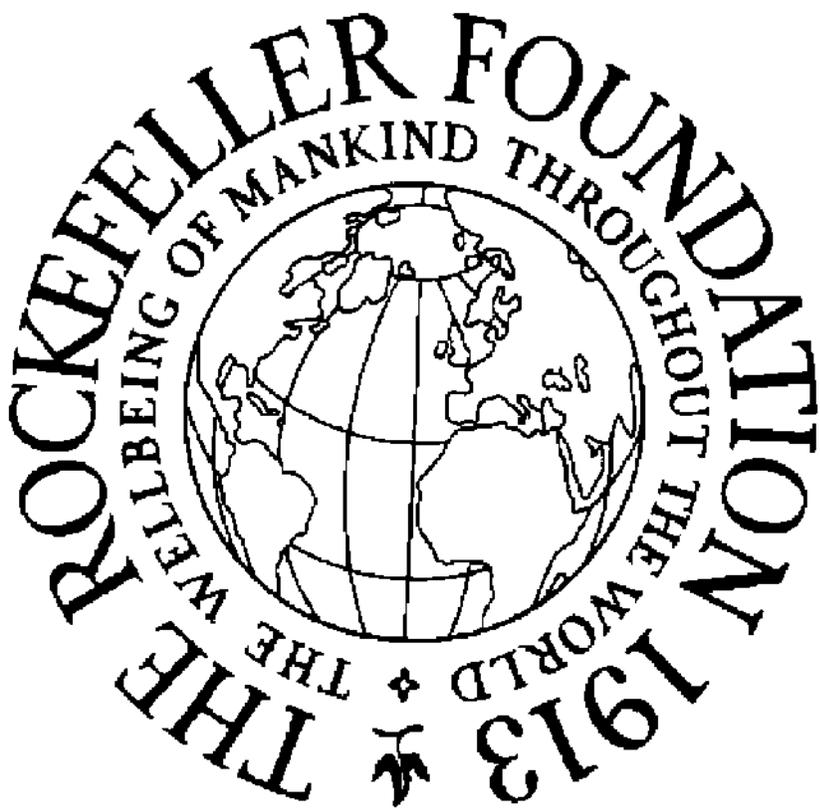
In 1993, the Equal Opportunity division devoted itself to two purposes, one new, and one old. At the core of the division’s emerging strategy on urban poverty is the realization that extant approaches have focused either on *places*—through economic or community development programs—or on *people*—through employment and training. The new strategy tries to bridge this dichotomy by making work available to residents of persistently poor urban communities and by fostering bootstrap community efforts to help themselves. In some instances, the new strategy will facilitate the access of the poor to available local jobs. In others, it will seek to create new jobs for those now isolated from the economic mainstream, so that they can develop the skills and employment history necessary to compete in the labor market. In both instances, the strategy would encourage communities to provide the social and community supports that enable residents to pursue employment opportunities and once they have gotten a job, to keep it.

The ongoing programs in the portfolio paid particular attention to the basic rights of minority Americans, the development of inner-city communities, the strengthening of low-income families, the mobilization of public and private resources for disadvantaged children and their families, and the study of poverty and discrimination.

Building on its ongoing commitment to minority basic rights, the Foundation funded the National Asian Pacific American Legal Consortium’s work on civil rights and public policy for Asian Americans. The consortium has placed

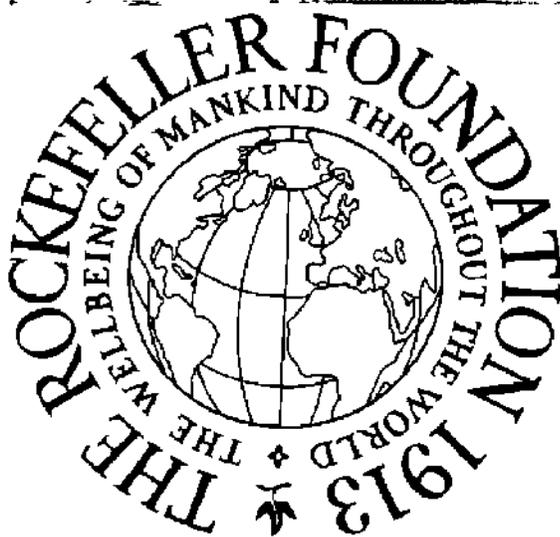
“Work is not merely a means of making a living and supporting one’s family; it constitutes the framework for daily behavior and patterns of interaction by imposing forms and habits of discipline and regularity. Regular employment provides the anchor for the temporal and spatial aspects of daily life; in its absence, life, including family life, becomes less coherent.”

Professor William Julius Wilson



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At left are members of the Women's Community Revitalization project, a Philadelphia-based community development organization that is part of the Foundation-sponsored National Community Development Initiative. This CDC builds and manages low-income housing, as well as a child care development center, pictured on page 47.



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Foundation grants to various advocacy organizations such as the NAACP Legal Defense Fund, the Mexican American Legal Defense and Education Fund (MALDEF), and the American Civil Liberties Union, assist in mounting legal challenges to issues that range from the redrawing of voting districts to environmental pollution.

The Florida Bar News

11th Circuit rejects 4-judge court ruling

Duval judicial elections violate law

a Breath of Justice

Along with equal employment opportunity and voting, living free from pollution is emerging as a new civil right.

by
STEVEN KEEVA

STEVEN KEEVA IS AN ASSISTANT EDITOR OF THE ABA JOURNAL.

THE WASHINGTON POST

Advocates Say Justices Muddy Voting Rights

Above, job trainees learn computer skills in order to become economically self-sufficient in a "back-to-work" program run by the Center for Employment Training in New York City.

priority on securing full access to voting rights for Asian Americans as well as addressing the issues of employment and housing discrimination and the growing incidence of hate crimes against this group.

The success of Community Development Corporations (CDCs) encouraged the Foundation to renew its support for the years 1994-1997 of the National Community Development Initiative, a consortium of national donors contributing to CDCs in 20 cities through the Local Initiatives Support Corporation and the Enterprise Foundation, both of which are also Foundation grantees. CDCs have proven to be singularly effective in enabling inner-city residents to develop local leadership and bring in new investment in tangible capital assets. The consortium's work attracted five new donors this year: J.P. Morgan & Company, Inc., the Metropolitan Life Foundation, the Annie E. Casey Foundation, the McKnight Foundation, and the U.S. Department of Housing and Urban Development.

Determining how racial attitudes, segregation, and labor market dynamics constrain or enhance employment opportunities in our major cities is a project of the Multi-City Study of Urban Inequality (MCSUI). Using telephone surveys and in-depth interviews, the MCSUI will investigate and compare the attitudes of employers and residents selected at random in Atlanta, Boston, Detroit, and Los Angeles.

Information is a vital weapon in the struggle against entrenched poverty. The newly formed Community Building Network (CBN) is one of several organizations Equal Opportunity assisted to disseminate important knowledge. The CBN both encourages its members to share useful strategies among themselves and assists them in influencing public policy toward the persistently poor.

The Coalition of Community Foundation for Youth, a 70-member alliance in 35 states that was organized with Foundation assistance in 1991, has mounted media campaigns to focus local and national attention on children's needs. Coalition members have issued critical report cards on the status of children in their communities and sounded the alarm on lagging child immunization and growing teenage violence. They have also entered into partnerships with child advocates, professional associations, and United Way chapters to augment their services to disadvantaged youth and their voice on children's issues.

Informing low-income working families about the advantages of the Earned Income Tax Credit is a part of the latest work of Children Now. Formed in 1989 as a non-partisan advocate for California's children, Children Now has mastered the effective usage of the electronic media to great effect, and is now sharing this expertise with organizations in other states that want their eligible families to take more advantage of the federal income supplement.

The Social Science Research Council concluded a Foundation-funded, five-year project of interdisciplinary research on urban poverty by sponsoring a major conference in Washington, D.C. that drew both prominent academics and government policymakers. Participants discussed the project's findings on research, policy, and programs.

"There will always be costs associated with change in a dynamic economy, but invariably it is those who are the least articulate, the least connected, and the least well-organized who bear an inordinate share of the burden. And that is one of the most significant causes of poverty in the United States."

Ernesto Cortes, Jr.
President, Texas Interfaith Education Fund
U S A

"America is learning the hard way that you can't throw children away and expect them to disappear. They come back, again and again and again. Poverty is a growing problem, and this country does not have a plan."

Angela Glover Blackwell
Executive Director, Urban Strategies Council
California, U S A



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At the Adolsina Villanueva Childcare Development Center in Philadelphia, managed by a local CDC, children play at an after-school program that includes classes in the arts as well as academic subjects. The background mural is the creation, in part, of those children featured in this photograph.



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School Reform

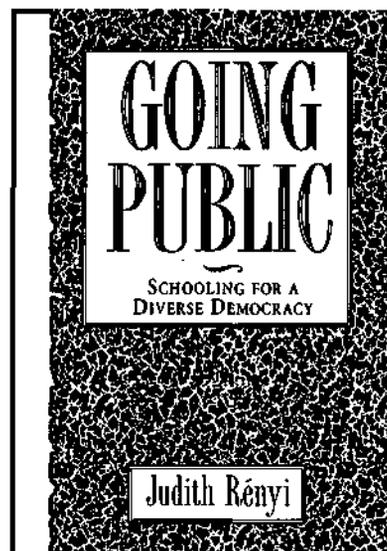
The Foundation's School Reform program seeks to improve public education for children of the urban poor and to that end has, since 1990, supported the School Development Program designed by Dr. James P. Comer of the Yale University Child Study Center. In the last six years, the SDP roster has grown from fewer than 70 schools in five districts to more than 250 schools in 26 districts in 17 states and the District of Columbia. In addition, the Education Departments of New Jersey and North Carolina are helping selected schools in 29 more districts implement the SDP.

The "battlefield conditions" prevalent in the nation's urban school systems have proved a daunting obstacle to most reform programs demanding a serious and sustained investment by teachers, administrators and parents. Both academic research and classroom realities point to the need for more qualified teachers and administrators. In response, the Foundation is substantially increasing its support for programs that are designed to strengthen the professional development of educators and administrators.

The Foundation believes that teachers cannot function effectively in their classrooms when they themselves have missed out on opportunities to hone their skills. Effective school reform depends on assuring that all educators become lifelong learners. Thus, the most critical need is for in-service development programs to bring state-of-the-art skills and renewed enthusiasm to veteran teachers and to equip administrators and policymakers with the tools to support teachers in their work. Demonstrating effective ways to meet the emerging professional development needs of educators will be an exciting and demanding challenge which the Foundation will pursue for the balance of the decade. As part of this effort, School Reform is working with four other foundations to help prepare and place the next generation of urban superintendents.

"In large cities as many as 50 percent of minority children drop out of school. The failure to educate these children makes ever harder the task of rectifying economic and social inequities. Job opportunities increasingly reside in service and technology industries, but poor minority youths are the least likely to develop the social and academic skills these jobs demand. Unless schools can find a way to educate them, to bring them into the mainstream, all the problems associated with unemployment and alienation will simply escalate."

Dr. James P. Comer
Yale Child Study Center
U.S.A.



This book by Judith Rényi, Director of Collaboratives for Humanities and Arts Teaching (CHART), explores the teaching profession and provides the historical context of the struggle for diverse curricula in the American public school system.

At right, parental participation at the Flanders Elementary School in San Antonio, Texas could be the envy of any other school district in the United States. Pictured is a "parent involvement meeting," the school is a part of the Texas Interfaith Education Fund network.



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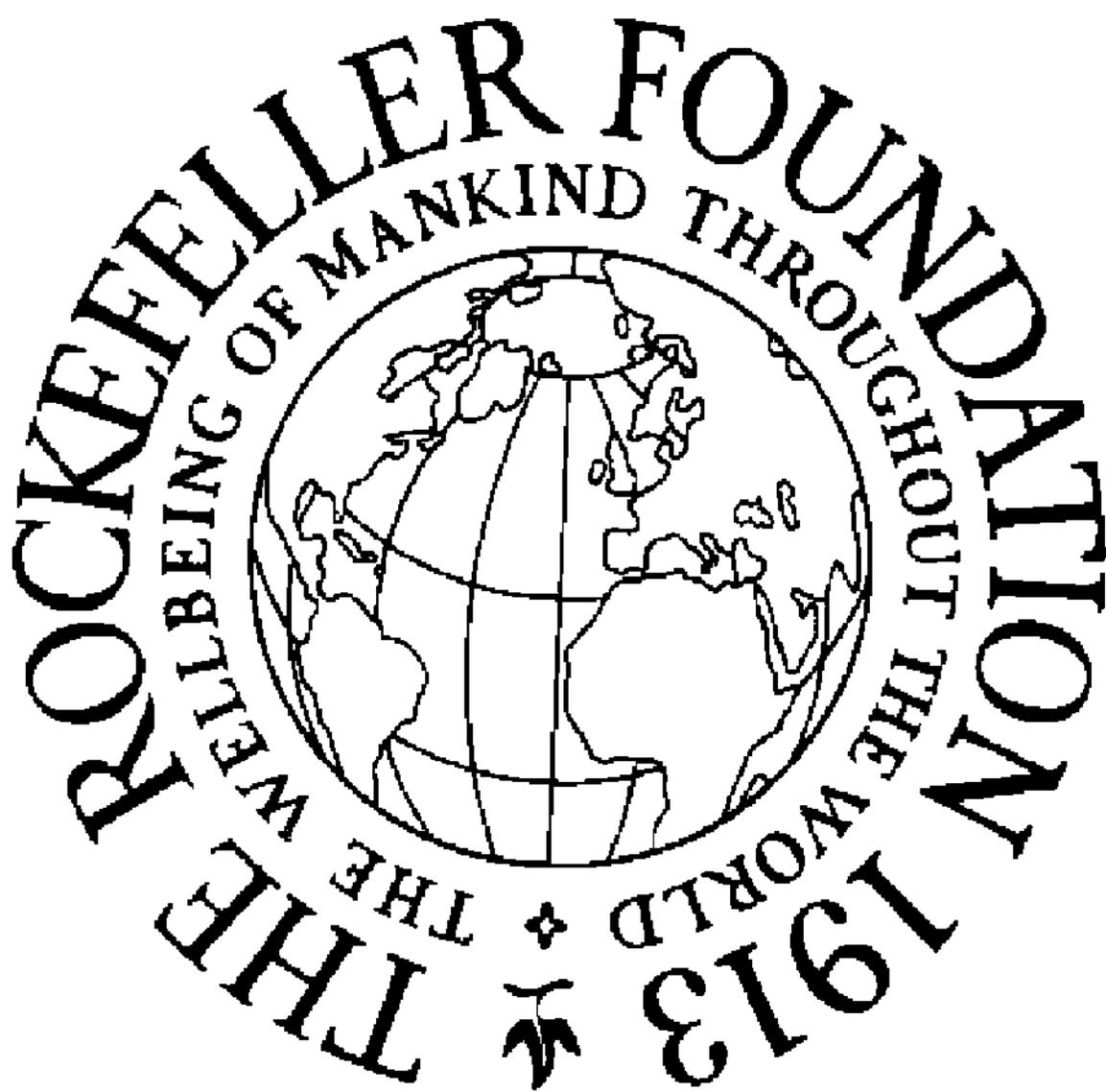


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Reforming curriculum, instruction, and student assessment continued to receive significant attention in 1993. The Foundation made its 10th and concluding grant to Collaboratives for Humanities and Arts Teaching which, under the direction of Judith Rényi, has grown, in the span of a decade, from its beginnings in Philadelphia into a national beacon for pathfinding reforms, with projects at 14 sites.

CHART's achievements endure not only in its continuing projects, but in others inspired by its example. Among them is Performance Assessment Collaboratives for Education, an outgrowth of CHART's Arts PROPEL. Based at the Harvard Graduate School of Education in Cambridge, Massachusetts, PACE is currently working principally in four urban districts—Rochester, Pittsburgh, San Diego, and San Francisco. A three-year grant from the Annie Casey Foundation is supporting the expansion of PACE's work to Fort Worth, Texas.

The Foundation is already engaged in the Texas school reform movement through its support of the Texas Interfaith Education Fund. TIEF brings a community organizing approach to educational improvement, engaging parents, teachers, business and civic leaders and organizations, students and public officials in a working partnership. Using organizing strategies such as the "walk for student success," in which teams of teachers, administrators, and volunteers visit every household in a school's neighborhood encouraging parents and community groups to become involved, TIEF doubled the number of schools in the program in the past year. With 90 schools in Texas and Arizona now involved, TIEF will extend its orbit to New Mexico in response to the growing interest expressed by educators struck by the program's ability to engage poor and often poorly educated parents in the pursuit of better educational opportunities for their children and, not infrequently, themselves as well.



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"The evidence is everywhere around us: unless we communicate our expectation that they can make it, many young people—especially from minority and disadvantaged backgrounds—will not take the kinds of academic courses they need in order to keep their future options open. Communication can be overt, or subtle, or perhaps even unintentional, but nonetheless it carries weight."

Vinetta Jones
Director Equity 2000
New York City, U.S.A.

Above, Zavala Elementary School in Austin, Texas is also part of the Texas Interfaith Education Fund network where children participate in an after school enrichment program. At left is a similar classroom setting in California



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Bellagio Study and Conference Center

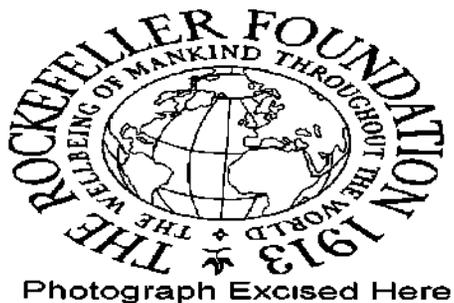
Set on the shores of Italy's Lake Como, the 50 acre Bellagio Study and Conference Center is entering its 33rd year as a gathering place for creative thinkers, artists, policymakers, and scientists from every region of the world. Some come to participate in conferences that help shape and support the Foundation's programs or contribute to other policy relevant fora, others to write articles or books ranging from literature to science, and still others to paint or compose.

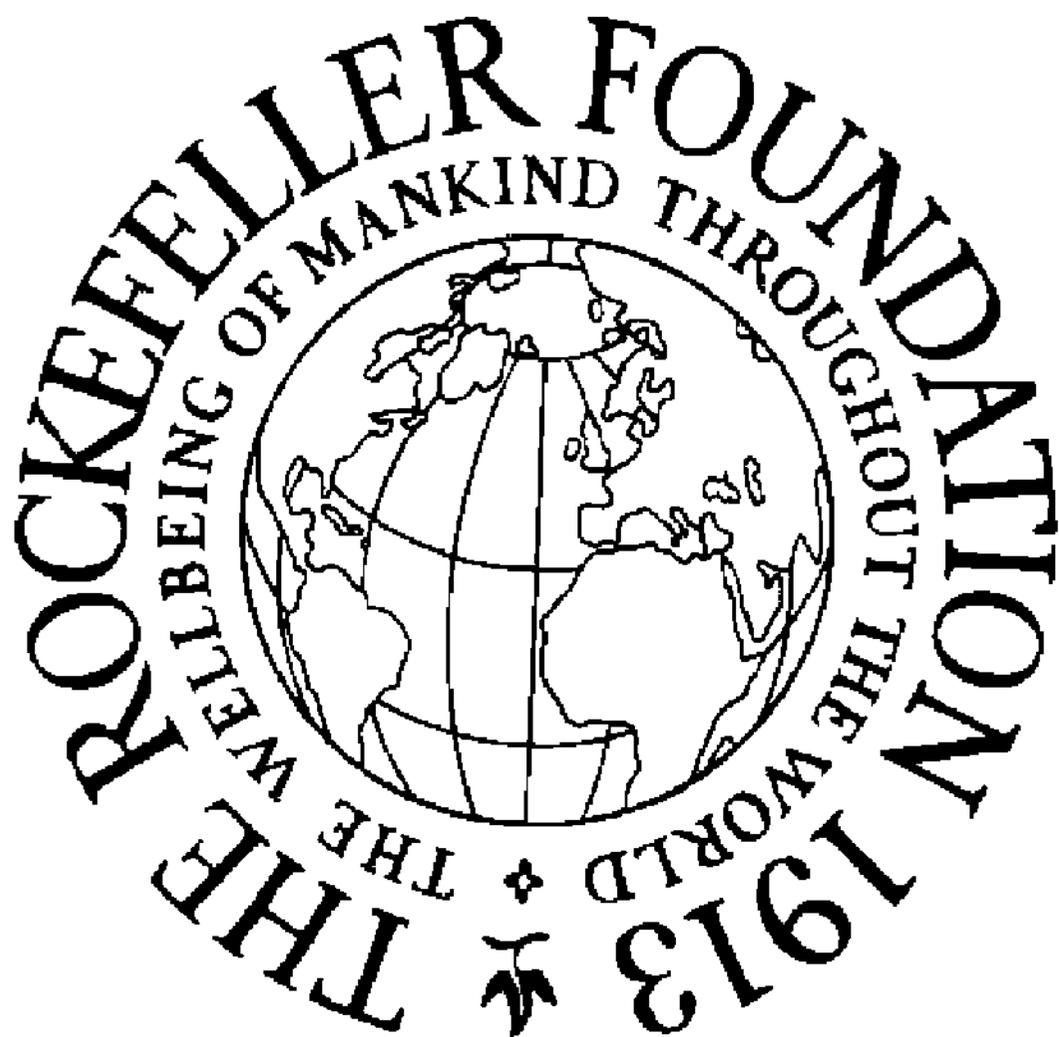
The Bellagio Committee set new directions for both the residency and conference programs in 1993. The individual residency program—administered competitively—was strengthened by the inclusion of more scholars from outside the United States, more women, more members of US minorities, and a range of age groups. In all, 146 scholars and artists—including 49 women—from 28 countries spent a month in residence at Bellagio working on their own projects.

Collaborative residencies were made a permanent feature at the Center as it is clear that the most urgent global problems require interdisciplinary, transnational focus and—above all—cooperation. Two team residencies inaugurated a program to bring together small, action-oriented groups of scholars, activists, policymakers, and artists. Another program of parallel residencies for people from different parts of the world who are addressing the same subject, sometimes from different disciplinary perspectives, was also initiated.

The committee strengthened the conference program by more clearly linking it to the work of the Foundation's divisions. Of the 34 conferences held in 1993, 60 percent were either sponsored by the Foundation or related to its program interests. For example, in October the Population Sciences division launched the Bellagio Forum on Population and Development. This was the first of a series of international sessions on population and development issues which will provide a fresh use of the Center to foster a core initiative for the Foundation.

Below and left are participants at a conference on environmental economics held at the Center last August.





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*At Bellagio, a view from the
maranese to the sfondrata complex
where conferees reside.*



Photograph Excised Here

*Residents at the Center come
to complete musical and artistic
compositions as well as literary
and academic manuscripts
Here, scholars confer.*



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"Those fellows with whom I had temporal overlap were very interested in hearing about recent developments in science, particularly in physics. I also found it very fruitful to learn about subjects so diverse as civil society, theories of emotion, American studies, the role of dialogue in performance, linguistic subtleties of Nepalese dialects, and so on. I hardly remember any discussion which did not at the end turn out to illuminate the problem discussed from a different perspective or even to open new ways of access."

Harald Atmanspöcher
Max Planck-Institut
Germany

"Rare too was the pleasure of meeting scholars and intellectuals from other disciplines. They are living proof of the marvelous inexhaustibility, complexity and curiosity of the human mind. Topics of table talk ranged from the botanical to the mythical, passing through politics, music, medicine, arms control and ancient history. Europeans, Americans, Asians, and Africans talked with equal honesty and animation. The buzz of enlightened conversation about the problems of the world and the paradigms for change and global solutions went round and round."

Professor Richard M. de Ungria
University of Philippines
Philippines

Over the past year, 844 conferees from 77 countries participated in 34 gatherings at Bellagio. Four meetings addressed various aspects of civil society that have become a major part of the Foundation's work in Arts and Humanities. A group of donors who had met at Bellagio in 1990 to plan support for African publishing renewed their discussions in light of the intervening experience. Promoting local philanthropy in developing countries was the topic of a second conference on a civil society theme. A third meeting brought together intellectuals from Canada, China, Hong Kong, India, Russia, Taiwan, and the United States to consider the concept both internationally and in the context of changes within their own countries. The fourth meeting concerned the prospects for democracy and tolerance in the Middle East.

The economic and environmental aspects of sustainable development formed the common motif of four other conferences on ecotourism, energy strategies for the 21st century, collaboration with European foundations, and alternative paths to environmentally appropriate development.

As a result of new recruitment strategies, 36 percent of the residencies went to individuals from outside the United States. The resulting diversity filled the year with an extraordinary sampling of personalities, proficiencies, and projects. November's residencies, for example, brought six Americans in various fields together with a British philosopher, a Canadian professor of clinical epidemiology, a Chinese playwright, a Filipino poet, a Ghanaian entomologist, a New Zealand professor of information and library sciences, a Pakistani activist, and a Zimbabwean lecturer in clinical veterinary studies.



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Special International Initiatives and Special Interests

“Whether the release of atomic energy in the long run will result in good or evil for the race, no one can now say; but whatever the consequences, the Foundation and its related boards cannot escape their share of the responsibility, indirect as it may be. The atomic bomb is the result of influences which, for the most part unintentionally and unwittingly, we helped to set in motion, because we were interested in pushing out the boundaries of knowledge.

It is a tragic irony that when men have been most successful in the pursuit of truth, they have most endangered the possibility of human life on this planet.”

—*Foundation President Raymond Fosdick in a confidential report to the Board of Trustees, 1945.*

International Security Program

In the 1990s, for the first time in the nuclear age, the opportunity to abolish nuclear, chemical, and biological weapons has begun to emerge. To help pull this prospect within reach, the Board of Trustees restructured the International Security program to focus on the problems of weapons of mass destruction in South Asia, East Asia and the Middle East. Challenging the nations of these regions to embrace the goal of abolition is a task which will require the Foundation to make an increasing proportion of its grants to institutions outside the United States and Europe.

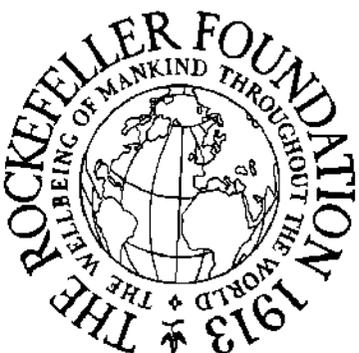
Many of the grants awarded in 1995 were intended to inaugurate this process by drawing experts from these regions into international efforts that will explore the possibility of abolition. For example, Nautilus of America has established a 12-nation electronic/fax network to address North Korea’s nuclear weapons program and its questionable compliance with the Nuclear Proliferation Treaty (NPT). The Asia Society completed an innovative, multi-national project exploring the possibilities of broad cooperation with North Korea, if progress is made on NPT compliance.

Global Nuclear Weapons Status

5-Point Scale: Movement Toward/Away from Nuclear Weapons

- 1 *Active Building of Nuclear Weapons, Components or Unsafeguarded Weapons Grade Material*
- 2 *Resisting Arms Control and Possibly Building Weapons, Components, and/or Materials*
- 3 *Mixed Building and Arms Control*
- 4 *Supporting Arms Control and No New Weapons Production*
- 5 *Active Movement Toward Disarmament*

	Nations	5-Point Scale
Nuclear Weapons States	China	1-2
	France	1-2
	Israel	1-2
	United Kingdom	3
	Russia	3-4
	United States	4
Defacto Nuclear Weapons States in Transition	Pakistan	1-2
	North Korea	2-3
	India	3
	Ukraine	3-4
	Kazakhstan	4-5
	Belarus	4-5
Potential Nuclear Weapons States	Iran	3
	Iraq	3
Former Nuclear Weapons States	South Africa	5
	Taiwan	5
	Sweden	5
Former Threshold States	Brazil	4
	Argentina	5
Non-Nuclear Weapons States Closely Watched	Germany	5
	Japan	4-5
	Libya	2
Non-Nuclear Weapons States of No Concern	150 Countries	5



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The American Foundation for AIDS Research supports a needle exchange program in New York City in efforts to stem the transmission of HIV among intravenous drug users.

In South Asia, the Regional Center for Strategic Studies in Sri Lanka has established a non-proliferation network which will link centers in Sri Lanka, Nepal, India, and Pakistan. Military officers from the latter two countries will come to Europe to study confidence building measures under the sponsorship of the Verification Technology Information Centre (VERTIC), in London. The Foundation is also enabling broader international participation in the Stimson Center's multi-year effort to map the path to a world without nuclear weapons.

Integrating young scholars and future policymakers from the Gulf and North African states into the international debate on arms control was the focus of projects funded in the Middle East. Outside of the three primary target regions, the Foundation funded a non-proliferation conference in Kiev, training for arms control specialists from the African National Congress and other South African parties, and participation by developing countries in the Parliamentarians for Global Action's campaign for a test-ban treaty.

Special Interests

The Special Interests fund supports important projects that do not qualify for the Foundation's principal programs. Twenty-two such grants were awarded in 1993. Among the recipients were the American Foundation for Aids Research to evaluate a needle exchange program in New York; the WGBH Educational Foundation for "Africans in America," a series of programs for public television; and the Washington Center for China Studies, Inc., for short fellowships in China by U.S.-based Chinese scholars to strengthen their ties with their colleagues in China.



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The Center for Reproductive Law and Policy in New York City funded a video, At the Clinic Door: The Right to Choose Under Siege, portraying the violence that is inflicted upon many women who seek abortion services by those opposed to "choice"



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AFRICANS IN AMERICA



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"Poor academic preparation has devastating impacts. Because of the vicious cycle of poverty and low-paying jobs in many reservation areas, Indian children often do not get the education necessary for better jobs. At times, our children's future looks bleak, but through an educational movement there springs hope. The American Indian College Fund is providing a unique educational opportunity."

David L. Archambault
Munkpapa Lakota Nation
USA



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Next spring, the WGBH Educational Foundation, home to public television in Boston, Massachusetts, will air a television series on the history of Africans in America—a story depicting their lives and accomplishments.



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1993 Grants and Fellowships

- 62 International Program to Support Science-Based Development
- 62 Global Environment Grants
- 64 Agricultural Sciences Grants
- 71 Health Sciences Grants
- 76 Population Sciences Grants
- 82 African Initiatives Grants
- 91 Arts and Humanities Grants
- 99 Equal Opportunity Grants
- 101 School Reform Grants
- 103 Bellagio Study and Conference Center
- 110 Special International Initiatives and Special Interests Grants

The principal work of the Rockefeller Foundation is accomplished through appropriations that support endeavors consistent with its charter and program guidelines. Each appropriation allocates \$150,000 or more for a programmatic purpose and is approved by the Board of Trustees. Direct appropriations are approved as grants to specific institutions. Other appropriations are administered by the Foundation's staff. Within the approved purpose and dollar total, the staff reviews proposals, selects qualified recipients, identifies activities to be funded, and determines the amount of the appropriation.

Grant appropriations in the lists that follow show the year and total authorized amount in brackets, followed by any allocations that have been made within the appropriation. Grants-in-aid are listed without brackets, and generally do not exceed \$150,000 in any one year.

International Program to Support Science-Based Development

This program provides focus for three of the Foundation's divisions—Agricultural Sciences, Health Sciences, and Population Sciences—and the global environmental initiative. The objective is to help the developing world, on its own terms, to use modern science and technology to increase people's access to food, health, reproductive choice, education, housing, and employment opportunity. Within this context, the challenge before the world community, and a principal emphasis of this program, is to promote a more equitable sharing of the world's resources while avoiding environmentally unsound development practices.

Global Environment Grants

The global environmental program supports work promoting the skills, attitudes, relationships, and institutions necessary for environmentally sound international development. Science-focused activities within this initiative are carried out through the Agricultural, Health, and Population Sciences divisions.

Africare,
Washington, D C
\$61,330
For a rural economic development project in Zimbabwe using photo-voltaics

Alessandro Barghini,
São Paulo, Brazil
\$5,230
For a demand side management study on increasing the use of efficient electricity in the Galápagos Islands

Biomass Users Network, Inc (BUN),
Washington, D C
\$130,000
For general support

\$15,960
Toward the costs of a demonstration project using plant oil to replace diesel fuel for electricity generation in Brazil.

Conservation Law Foundation,
Boston, Massachusetts
\$98,430
Toward the development and implementation of an energy efficiency program in Jamaica.

Electrical Energy Efficiency in Developing Countries
[1991 - \$1,000,000]
To provide start-up funding for a pilot program of international cooperation on electrical energy efficiency in developing countries

Biomass Users Network, Inc (BUN),
Washington, D C
\$28,750
To provide technical assistance for the demand-side management demonstration project on electrical energy efficiency in Jamaica.

International Energy Initiative (IEI),
New York, New York
\$200,000
Toward the costs of designing an energy efficiency program for Zimbabwe

Energía Global de Costa Rica, S A (EGCR),
San José, Costa Rica
\$40,000
Toward the costs of a demonstration commercial energy efficiency project to retrofit the Dos Pinos milk processing facility in Costa Rica.

Energía Global, Inc (EGI),
Wakefield, Massachusetts
\$150,000
Toward the pre construction phase of the Don Pedro hydroelectric project in Costa Rica.

Energy Foundation,
San Francisco, California
[1993 \$2,400,000, in addition to remaining funds from prior year appropriations]
To support its program on US energy efficiency and renewable energy sources

Energy Initiatives
[1992 \$750,000]
To assist developing countries in identifying and acquiring environmentally superior energy technologies

Talleres Ovidio Martínez, S A ,
Madrid, Spain
\$70,000
Toward the costs of a study on the use of conventional and advanced membranes as filtering agents in the treatment of sugarcane stillage to reduce the energy requirement for conversion of the stillage into fuel alcohol.

Environmental Enterprises Assistance Fund,
Arlington, Virginia
\$100,000
Toward the creation of commercially viable developing-country enterprises employing renewable energy technologies

Institute for International Economics,
Washington, D C
\$25,000
In support of its project, "Trade, development, and the environment. New linkages and challenges"

International Energy Project Development
[1992 \$650,000]
To document the economic and environmental benefits of cogeneration, end-use efficiency, and biomass-based energy systems for developing countries and lay the groundwork for donor and private-sector actions

Arthur Andersen Economic Consulting,
Los Angeles, California
\$12,500
Toward the costs of its study of utility-sponsored demand-side management programs

Council for Renewable Energy Education (CREE),
Washington, D C
\$48,000
For a study aimed at facilitating the inclusion of renewable energy projects in World Bank loans to Brazil.

Enersol Associates, Inc ,
Somerville, Massachusetts
\$100,000
Toward the costs of its project to expand solar-based rural electrification in the Dominican Republic and Honduras through consumer credit development.

Resources Development Foundation,
New York, New York
\$90,000
Toward the costs of feasibility studies of renewable energy and wastewater conversion projects in developing countries

SATHTEL—Usinas Termo e Hidro Elétricas, S A,
Cotia, Brazil
\$20,370

For the costs of an analysis of the financial viability of three biomass-to-energy projects in the Amazon region of Brazil.

Solar Electric Light Fund (SELF),
Washington, D C
\$50,000

For a demonstration project on the use of self-supporting solar rural electrification in Gansu Province, China.

Soluz, Inc.,
Somerville, Massachusetts
\$100,000

Toward the costs of a pre-feasibility study for a solar electric energy delivery (SEED) company and construction of a SEED prototype for 200 rural homes in the Dominican Republic.

University of Pennsylvania,
Philadelphia
\$50,400

For use by its Center for Solid Water Systems and Technology to support the training of eight professionals of China's Rural Energy Construction Program in project management and program evaluation.

University of Tennessee,
Knoxville
\$20,000

For use by its Energy, Environment and Resources Center toward the costs of integrated energy resource planning for the electric utility sector of Hainan Province and a biomass-to-electricity project in Yunnan Province.

Foundation-administered project
\$100,000

For administrative expenses.

King Mongkut's Institute of Technology Thonburi,
Bangkok, Thailand
\$100,000

For a project to recycle organic matter and reduce carbon-dioxide emissions by composting cane trash.

Leadership for Environment and Development (LEAD)
[1993—\$4,500,000, in addition to remaining funds from prior year appropriations]

To build human capital for leadership that will help preserve the environment, promote fair and sustainable development, and forge international agreements to accomplish these ends.

Brazilian Association for Leadership Development,
São Paulo, Brazil
\$284,000

For support of the LEAD national program in Brazil.

Development and Environment Foundation,
Moscow, Russia
\$158,600

For support of the LEAD national program in the Commonwealth of Independent States.

El Colégio de México,
Mexico City
\$184,060

For support of the LEAD national program in Mexico.

Foundation for Environmental Development and Education in Nigeria (FEDEN),
Lagos, Nigeria
\$280,000

For support of the LEAD national program in Nigeria.

Foundation for Sustainable Development (Yayasan Pembangunan Berkelanjutan),
Jakarta, Indonesia
\$235,000

For support of the LEAD national program in Indonesia.

Peking University,
Beijing, China
\$110,000

For support of the LEAD national program in China.

Foundation-administered projects
\$1,750,000
Toward administrative costs of the program.

\$750,000
Toward the costs of equipment and services for the development of the program's information and communications network (LEADNet).

\$458,800
For the implementation and administration of the LEADNet.

\$400,000
Toward expenses for the LEAD program's international session in Costa Rica, held June 10-21, 1993.

\$500,000
For costs of the second international session of the LEAD program's first cohort, to be held in Zimbabwe, March 20-April 3, 1994.

\$100,000
For costs of a meeting of the International Steering Committee of the LEAD program, held in Jamaica, November 3-6, 1993.

\$458,800
For the implementation and administration of the LEADNet.

Nimbkar Agricultural Research Institute (NARI),
Phaltan, Maharashtra State, India
\$93,500

For a project in rural India to retrofit a liquid petroleum gas-fired furnace with a low-density biomass gasification system.

Princeton University,
New Jersey
\$200,000

For a study on renewable fuel utilization and improved technologies for conventional fuels, and to identify related model energy enterprises in the developing world.

Solar Electric Light Fund (SELF),
Washington, D C
\$100,000
Toward the costs of a joint venture between SELF and the Gansu GNERJ PV Company to manufacture photovoltaic systems in China.

Solar Ocean Energy, Inc.,
Carmel Valley, California
\$95,000
Toward the costs of a demonstration project in the Caribbean of solar-ocean thermal energy conversion.

Spencer Management Associates,
Diablo, California
\$99,980

Toward the costs of a pre-feasibility study on the use of parabolic trough Solar Electric Generating Stations (SEGS) in developing countries.

University of São Paulo,
Brazil
\$40,000
For use by its Institute of Electrotechnology and Energy toward the costs of a graduate program on energy.

University of the West Indies,
Kingston, Jamaica
\$99,500
For use by its Centre for Sustainable Development toward the costs of its project on energy in Caribbean sustainable development.

World Resources Institute (WRI),
Washington, D C
\$10,000
To make possible the participation of three developing-country scientists in a workshop on global environmental monitoring, co-sponsored by the California Institute of Technology, to be held in Pasadena, California, June 1993.

Foundation-administered project
\$62,000
Toward the costs of a Foundation-sponsored Bellagio conference on Energy Strategies for the 21st Century, held April 13-16, 1993.

Agricultural Sciences Grants

The Agricultural Sciences division supports work using biotechnology to improve crops that are developing country staples, improving family food production systems in Africa, and increasing knowledge for the management of natural resources

APPLYING BIOTECHNOLOGY TO DEVELOPING COUNTRY FOOD CROPS

Basic and Applied Rice Biotechnology

[1993 - \$2,400,000, in addition to remaining funds from prior year appropriations]

To support research and training at industrialized-country laboratories participating in the Foundation's international program on rice biotechnology

Commonwealth Scientific and Industrial Research Organisation (CSIRO), Division of Plant Industry, Canberra, Australia
\$250,000

For research on synthetic genes conferring resistance to the rice ragged stunt virus

John Innes Foundation, Norwich, England
\$302,000

For research at the John Innes Institute on the molecular biology of rice tungro viruses

Lehman College, Bronx, New York
\$57,750

For research on improving the carotenoid content of rice endosperm.

Michigan State University, East Lansing
\$13,530

For research on the genetic analysis of brown planthopper biotypes

Scripps Research Institute, La Jolla, California
\$346,000

For research on the molecular biology of rice tungro virus and rice yellow mottle virus, and the genetic engineering of rice for virus resistance

Texas A&M University, College Station
\$50,000

For collaborative research on the production of fertile transgenic rice plants

\$30,000

For research leading to the construction of a yeast-artificial chromosome (YAC) library for *japonica* rice varieties, with the special objective that it contain genes for resistance to rice blast

Tribhuvan University, Kathmandu, Nepal
\$33,000

A study of variation in rice tungro virus isolates, to be undertaken by Biotechnology Career Fellow Dr Ganesh Dahal, under the direction of Dr Roger Hull, Department of Virus Research, John Innes Institute, Norwich, England.

University of California, Davis
\$10,000

For research on the molecular biology and genetic engineering of rice

\$50,000

For research leading to the construction of a yeast-artificial chromosome (YAC) library from *indica* rice varieties, with the special objective that it contain genes for resistance to bacterial blight.

University of Durham, England
\$200,000

For research on genetically engineered rice resistance to the brown planthopper

University of Georgia, Athens
\$15,000

For research on the identification and characterization of endophytes in rice

University of Missouri, Columbia
\$75,000

In support of research on cytokinins (a group of plant growth hormones) and enhancement of their expression during endosperm development in rice to increase grain size

\$20,000

For research on the development, characterization, and mapping of DNA markers in the rice genus *Oryza*

University of Ottawa, Ontario, Canada
\$150,000

For research on tissue-specific gene promoters from rice and the development of chimeric genes for insect resistance and novel breeding systems

University of Paris VII, France
\$72,500

For use by its Jacques Monod Institute in continued work on the molecular characterization of rice hoja blanca virus

University of Wisconsin, Madison
\$100,000

Toward the costs of a molecular and genetic analysis of mechanisms controlling pathogen virulence in *Magnaporthe grisea*

Utah State University, Logan
\$28,000

For research on the characterization of a new apomictic rice line (HDAR), isolated in China.

Washington State University, Pullman
\$140,000

For research on male sterility in the genetic engineering of rice

\$50,000

For research on the control of starch synthesis during rice endosperm development

Foundation-administered projects
\$100,000

For costs of the Sixth Annual Meeting of the Foundation's International Program on Rice Biotechnology, held in Chiang Mai, Thailand, February 15, 1993

\$50,000

For administrative costs associated with implementing the Foundation's program for the genetic improvement of developing-country food crops

\$20,000

For costs of a Rice Transformation Summit workshop, held at the Scripps Research Institute, La Jolla, California, September 20-21, 1993

\$28,000

Costs of a Foundation-sponsored workshop on the feasibility of introducing carotenoid biosynthesis into rice endosperm, held at the Foundation, June 10-11, 1993

\$50,000

Costs of the Seventh Annual Meeting of the International Program on Rice Biotechnology to be held in Bali, Indonesia, May 1994

Biotechnology Training in Latin America and Africa
[1991 \$300,000]

To help develop and support crop biotechnology training programs at selected institutions in Latin America and Africa

Foundation-administered project
\$1,895

Toward the costs of a workshop on plant tissue culture held at Bunda College, University of Malawi, March 22-April 2, 1993

Cassava Biotechnology
[1993 - \$270,000, in addition to remaining funds from prior year appropriations]

To support the further development of an international network for biotechnology research on cassava.

Scripps Research Institute, La Jolla, California
\$285,307

For research on the genetic engineering of cassava for virus resistance

University of Guelph,
Ontario, Canada
\$20,000
For research on the application of particle bombardment technology to transformation of cassava meristem tissue

Cassava Improvement Priorities and Molecular Mapping
[1991 - \$800,000]

To determine, through analysis of African socioeconomic data, the priority traits of cassava on which plant breeders should focus, and to generate a molecular map of cassava and related species that will help breeders address these priorities more efficiently

International Center for Tropical Agriculture (CIAT),
Cali, Colombia
\$29,600

For research on the molecular mapping of cassava and its wild relatives

University of Nottingham,
University Park, England
\$34,000

For research on the development of protoplast and other tissue culture systems for cassava.

Foundation administered projects
\$20,400

Continuation of technical assistance for the pioneering study evaluating the dynamics of cassava production, consumption, and marketing in eastern and southern Africa.

\$40,000
Toward administrative costs of the program.

Center for Research and Advanced Studies of the National Polytechnic Institute (CINVESTAV),
Mexico City, Mexico

[1993 - \$230,000, in addition to remaining funds from prior year appropriations]
To complete support for a model transfer project that has enabled CINVESTAV scientists, using proprietary biotechnology, to engineer virus resistance into Mexico's leading potato variety

The Hungarian Academy of Sciences,
Szeged, Hungary
\$100,000

For research by its Institute of Plant Biology on the production and characterization of transgenic maize plants containing viral genome sequences for protection against maize streak virus

John Innes Foundation,
Norwich, England
\$100,000

For research at the John Innes Institute on the production and characterization of transgenic maize plants containing viral genome sequences for protection against maize streak virus

National Priorities for Rice Biotechnology
[1992 - \$600,000]

To provide several Asian countries with a quantitative, systematically derived basis for allocating rice biotechnology research resources

International Rice Research Institute (IRRI),
Manila, Philippines
\$125,000

Toward the costs of its project to help collaborators from India, China, Indonesia, Thailand, and Nepal establish national priorities for biotechnology research on rice

International Service for the Acquisition of Agri-Biotech Applications,
Ithaca, New York
\$100,000

Toward the costs of a workshop on the regulatory issues related to the introduction of genetically engineered crops in tropical agriculture, held in Bogor, Indonesia, April 19-23, 1993

Rice Biotechnology at International Centers
[1993 - \$1,000,000, in addition to remaining funds from prior year appropriations]

To support research at international centers participating in the Foundation's rice biotechnology program.

International Center for Tropical Agriculture (CIAT),
Cali, Colombia
\$150,000

For biotechnology research on rice RFLP mapping, rice hoja blanca virus, and rice anther culture

International Rice Research Institute (IRRI),
Manila, Philippines
\$10,000

In support of research at Cornell University by a Foundation fellow posted to IRRI on the tagging of rice genes that control root morphology, with results aiding efforts to breed rice varieties resistant to drought.

\$700,000
*Toward research on the application of biotechnology to rice improvement, including wide hybridization, rice genetics and rice genome mapping, molecular techniques in rice pathology, use of *Bacillus thuringiensis* genes for insect pest control, and crop genetic engineering*

\$135,240
Toward the costs of training and technology transfer fellowships in rice biotechnology

Sorghum and Millet Biotechnology
[1992 - \$700,000]
To further the development of molecular genetic techniques for sorghum and millet improvement and to train developing-country scientists in their use

Dong Jinpingang, Shanghai Institute of Plant Physiology,
Academia Sinica, China
\$16,000

For an extension of a postdoctoral fellowship enabling him to take advanced training in sorghum biotechnology under the direction of Timothy C Hall, Texas A&M University

Haryana Agricultural University,
Hisar, India
\$64,600

Postdoctoral fellowship in crop genetic mapping of sorghum to enable Dr Khazan S Boora to receive advanced training under the direction of Dr Gary E Hart, Department of Soil and Crop Sciences, Texas A&M University

Liaoning Academy of Agricultural Sciences,
Shenyang, China
\$42,100
For a postdoctoral fellowship in crop genetic mapping of sorghum, enabling Zhang Xian to study under the direction of Dr Gary E Hart, Department of Soil and Crop Sciences, Texas A&M University

Purdue University,
West Lafayette, Indiana
\$90,000
*For research on integrated biotechnological approaches to control of *Striga*, a parasitic weed that causes serious losses in small farmers' sorghum and millet crops in Africa and India.*

Sichuan Agricultural University,
Ya'an, China
\$53,700

For a postdoctoral fellowship in crop genetic mapping of apomixis, enabling Luo Ming to study under the direction of W James Peacock, Institute of Plant Production and Processing, Division of Plant Industry, Commonwealth Scientific, Industrial, and Research Organisation, Canberra, Australia.

University College of North Wales,
Bangor, Gwynedd
\$10,000
Toward the costs of the conference, "Molecular Markers in Sorghum and Pearl Millet to Assist Breeding in Developing Countries," held March 29-April 2, 1993, in Norwich, England.

University of Georgia,
Athens
\$90,000
For research on the molecular tagging of genes controlling apomixis in pearl millet.

University of Mysore,
India
\$45,100
Postdoctoral fellowship in crop genetic mapping of sorghum, to enable Dr Sunitha Kumari R. to receive advanced training under the direction of Dr Gary E Hart, Department of Soil and Crop Sciences, Texas A&M University

Transfer of Rice Biotechnology to Developing Countries
(1993) - \$2,500,000, in addition to remaining funds from prior year appropriations]

To help developing countries establish the scientific capacity and research programs necessary to utilize and advance rice biotechnologies

Agricultural Biotechnology Institute, Rural Development Administration, Suweon, Korea
\$37,900

For a study of ribosome inactivating proteins and genes for use as anti fungal agents in transgenic rice, undertaken by Biotechnology Career Fellow Kum Jun Kon under the direction of Ray Wu, Section of Biochemistry, Molecular and Cell Biology, Cornell University

Bose Institute, Calcutta, India
\$10,000

For research on the production of transgenic *indica* rice plants with useful genes

Central Research Institute for Food Crops, Ministry of Agriculture, Bogor, Indonesia
\$227,125

Toward the costs of strengthening its research program in rice biotechnology

\$37,100

For study of the identification and transfer of genes affecting agronomic traits of *javanica* rice, to be undertaken by Biotechnology Career Fellow Sugiono Moelhopawiro under the direction of Susan R McCouch, Department of Plant Breeding and Biometry, Cornell University

China National Rice Research Institute (CNRRI), Hangzhou
\$110,000

For research leading to the application of novel strategies for rice improvement in China.

Chinese Academy of Sciences, Beijing
\$15,000

For use by its Institute of Genetics in providing a Visiting Scientist Research Fellowship for work on anther and cell culture of rice, to be undertaken by Tian Wenzhong at the Scripps Research Institute

\$38,700

For a study on the tagging of genetic male sterile genes in rice using molecular markers, to be undertaken by Biotechnology Career Fellow Wang Bin under the direction of Henry T Nguyen, Department of Agronomy, Horticulture, and Entomology, Texas Tech University

Fudan University, Shanghai, China
\$50,000

For research on the physical mapping of the rice genome

\$6,000

For research toward developing a novel system for gene transfer to rice

\$54,600

For a postdoctoral fellowship in rice biotechnology/genome mapping enabling Wang Bei to take advanced training under the direction of Pamela Ronald, Department of Plant Pathology, University of California, Davis

Haryana Agricultural University, Hisar, India
\$39,300

For a study of restriction fragment length polymorphism (RFLP) for tagging genes for quality characters in rice, to be undertaken by Biotechnology Career Fellow Santosh Dhillon under the direction of Gary Kochert, Department of Botany, University of Georgia.

Huazhong Agricultural University, Wuhan, Hubei, China
\$2,500

For research on the toxicity of *Bacillus thuringiensis* against the yellow stem borer of rice, to be conducted at the International Rice Research Institute by Xizha Luo

Indian Council of Agricultural Research, New Delhi
\$183,000

For use by the Central Rice Research Institute, Cuttack, in conducting research on the application of cellular and molecular biotechnology to the genetic improvement of rice

International Rice Research Institute (IRRI), Manila, Philippines
\$270,480

Toward the costs of training and technology transfer fellowships in rice biotechnology

M G Maheswaran, Tamil Nadu Agricultural University, Coimbatore, India
\$8,500

For research on the molecular characterization of genes for rice development.

Madan Mohan, International Centre for Genetic Engineering and Biotechnology, New Delhi, India
\$33,000

For a postdoctoral collaborative research fellowship in the agricultural sciences enabling him to study map based gene cloning of gall midge resistance genes under the direction of Kurata Nori, Rice Genome Research Program, National Institute of Agrobiological Resources, Tsukuba, Japan.

National Center for Genetic Engineering and Biotechnology, Bangkok, Thailand
\$27,000

Toward the costs of a workshop on rice transformation, held in Bangkok, November 14, 1993

\$58,000

For research on the characterization of rice blast populations by lineage using DNA fingerprinting, to be conducted by Poonsak Mekwatanakorn at Kasetsart University

\$33,000

A study of the organization of large DNA fragment clones in the rice genome, to be undertaken by Biotechnology Career Fellow Dr Somwong Tragoonrun, under the direction of Dr Nori Kurata, Rice Genome Research Program, National Institute of Agrobiological Resources, Tsukuba, Japan

\$45,000

Toward its costs in providing leadership coordination and information services for a multi institutional national program on rice biotechnology in Thailand.

Athula Lokhamaniya Thilak Perera, University of Liverpool, England
\$42,644

Toward the costs of a postdoctoral fellowship for studying genetic mapping of rice under the direction of W J Rogers, Department of Genetics and Microbiology, University of Liverpool, England.

Punjab Agricultural University, Ludhiana, India
\$31,700

For a study of genetic transformation and production of transgenic plants in *indica* rice varieties, to be undertaken by Biotechnology Career Fellow Satbir Singh Gosal under the direction of E C Cocking, Department of Life Science, University of Nottingham, England.

Purdue University, West Lafayette, Indiana
\$31,000

For research on the genetic transformation of *indica* rice

Research Laboratory for Agricultural Biotechnology and Biochemistry, Kathmandu, Nepal
\$30,000

For research on anther culture techniques to increase the efficiency of rice breeding

\$12,500

To enable a member of its staff, Shahisnu Tamrakar, to receive training in molecular biology and genome analysis at the International Rice Research Institute, Manila, Philippines

<p>Scripps Research Institute, La Jolla, California \$21,000 <i>To support training in rice biotechnology for Mr Jianmin Wang at the Scripps Research Institute</i></p>	<p>Thai Rice Research Institute, Bangkok, Thailand \$127,600 <i>Toward the establishment at its Ubon Rice Research Center of an international facility for screening drought resistant rice germ plasm.</i></p>	<p>University of Punjab, Lahore, Pakistan \$150,075 <i>For research on the development of genetic resistance to common pests through expression of <u>Bacillus thuringiensis</u> toxin genes</i></p>	<p>Foundation-administered project \$25,000 <i>Travel costs associated with a conference on Biotechnology for Integrated Pest Management, held at the Bellagio Study and Conference Center, Italy</i></p>
<p>Shanghai Academy of Agricultural Sciences, China \$60,000 <i>To support research in the application of anther culture to rice breeding</i></p>	<p>United States Department of Agriculture, Washington, D C \$10,000 <i>For use by the Plant Genome Research Program of its Agricultural Research Service toward the travel costs of developing country scientists attending the Plant Genome II meeting held in January 1994 in San Diego</i></p>	<p>\$75,000 <i>For research on biological control of the rice blast fungus through use of the fluorescent soil bacterium, <u>Pseudomonas fluorescens</u></i></p>	<p>STRENGTHENING FOOD PRODUCTION SYSTEMS IN AFRICA</p>
<p>Halagappa Eswarappa Shashidhar, University of Agricultural Sciences, Bangalore, India \$24,850 <i>Renewal and amendment of post doctoral fellowship in crop genetic mapping for advanced training under the direction of Dr Henry T Nguyen, Institute for Biotechnology, Texas Tech University, Lubbock</i></p>	<p>University of Costa Rica, San Jose \$61,200 <i>For research on the molecular characterization of rice hoja blanca virus</i></p>	<p>University of Wisconsin, Madison \$23,000 <i>For research on the molecular basis of genome instability in <u>Magnaporthe grisea</u>, the fungus causing rice blast.</i></p>	<p>Association for Better Land Husbandry, London, England \$90,000 <i>To initiate an Organic Matter Network in Africa, based in Kenya.</i></p>
<p>South China Agricultural University, Guangzhou, China \$38,700 <i>For a study of the application of RFLP analysis in rice gene tagging and genetic variation evaluation, to be undertaken by Biotechnology Career Fellow Mei Mantong under the direction of Gary Kochert, Department of Botany, University of Georgia.</i></p>	<p>University of Dhaka, Bangladesh \$79,200 <i>For research on the genetic manipulation of Bangladeshi rice varieties to increase their tolerance to salt.</i></p>	<p>Wang Jun, Shanghai Institute of Plant Physiology, China \$9,500 <i>To complete his research at the Salk Institute on the genetic engineering of rice for pathogen resistance</i></p>	<p>Department of Agricultural Research, Government of Malawi, Lulongwe \$62,000 <i>For a project aimed at establishing the basis for a national, coordinated approach to improving soil fertility</i></p>
<p>Tamil Nadu Agricultural University, Coimbatore, India \$6,300 <i>For research on the fusion of <u>indica</u> and <u>japonica</u> rice protoplasts, to be conducted at Hokkaido University, Sapporo, Japan, by S Sukumar, Visiting Fellow in Rice Biotechnology</i></p>	<p>University of Hyderabad, India \$215,500 <i>For research on the biosynthetic pathway in rice of anthocyanin, a compound that produces a red pigment having fungicidal, bactericidal, and insecticidal properties</i></p>	<p>Zhejiang Agricultural University, Hangzhou, Zhejiang, China \$67,200 <i>Postdoctoral fellowship in rice biotechnology for Dr Cheng Xiongying to receive advanced training under the direction of Dr Ingo Potrykus, Institut für Pflanzenwissenschaften, Eidgenössische Technische Hochschule, Zurich, Switzerland.</i></p>	<p>Forum on Agricultural Resource Husbandry in Sub-Saharan Africa [1993 \$850,000, in addition to remaining funds from prior year appropriations] <i>To strengthen graduate education at selected faculties of agriculture in eastern and southern Africa through initiating an African directed competitive grants program that encourages faculty members and students, in collaboration with non-university research personnel, to undertake multi disciplinary field research on crop and resource management.</i></p>
<p>Tata Institute of Fundamental Research, Bangalore, India \$150,000 <i>For research on the molecular genetics of insect pests of rice</i></p>	<p>University of Madras, India \$37,700 <i>For research on the application of molecular probes to analyze the diversity of the rice pathogen <u>Xanthomonas oryzae pv oryzae</u> in India, to be undertaken by Biotechnology Career Fellow SS Gnanamanickam under the direction of Anne M Alvarez, Department of Plant Pathology, University of Hawaii.</i></p>	<p>\$77,000 <i>For research on proteins antagonistic to rice bacterial leaf blight and the genes encoding the proteins, to be conducted in collaboration with the China National Rice Research Institute</i></p>	<p>Eduardo Mondlane University, Maputo, Mozambique \$5,000 <i>To prepare a proposal for a research project concerning amelioration of the impact of slash-and-burn agriculture on soils in coastal Mozambique</i></p>

- \$182,100
For the development of integrated pest management systems for cow peas in Uganda.
- University of Malawi,
Zomba
\$5,000
To enable the Bunda College of Agriculture to prepare a grant proposal for a project analyzing the links between crop production, food supply systems, and nutritional status in Malawi.
- \$4,125
To enable the Bunda College of Agriculture to prepare a grant proposal for a project on the handling and multiplication of bean seed by the country's smallholders.
- \$2,700
To enable the Bunda College of Agriculture to prepare a grant proposal for research on farmer participation in agricultural technology development in Malawi and Zimbabwe.
- \$74,000
For use by the Bunda College of Agriculture for a research project on pathogenic variability in *Fusarium udum*, the cause of wilt in pigeon pea.
- \$4,700
For use by Bunda College of Agriculture for a preparation grant for a research project, "Biological Management of Soil Fertility in Malawi."
- University of Zimbabwe,
Harare
\$98,700
For use by its Department of Crop Science in an integrated crop management research project to improve maize yields for the country's smallholder farms.
- \$5,000
To prepare a grant proposal for a research project on integrated drought annual and crop management in the context of improved crop productivity.
- Foundation-administered project
\$40,000
Toward administrative costs of the program.
-
- Integrated Banana Research in Uganda
[1992 \$445,000]
To define the role of pests and pathogens in constraining banana production in Uganda, and devise biological control measures for the most important insect pests.
- International Institute of Tropical Agriculture (IITA),
Ibadan, Nigeria
\$423,000
For continued collaboration with Ugandan scientists in quantifying the importance of pathogens and nematodes that attack small farmers' banana plantings, and devising biological control methods.
-
- International Centre for Insect Physiology and Ecology (ICIPE),
Nairobi, Kenya
[1993 \$300,000, in addition to remaining funds from prior year appropriations]
To continue support for its Social Science Interface Research Unit.
- \$50,000
Toward the expenses involved in its board's search for a new director of the center.
-
- International Centre for Research in Agroforestry (ICRAF),
Nairobi, Kenya
\$9,000
In support of a research project to evaluate accessions of the legume tree genus *Leucaena* that are potentially resistant to psyllid attack.
-
- International Institute of Tropical Agriculture (IITA),
Ibadan, Nigeria
\$10,000
Toward the costs of an international workshop on the safety of cassava as food and feed.
-
- Makerere University,
Kampala, Uganda
\$30,000
Toward the costs of a Crop Science Conference for eastern and southern Africa, being organized by the University in collaboration with the Ugandan Ministry of Agriculture, which took place in Kampala, June 14-18, 1993.
-
- \$104,000
To support its Master's Program in Agricultural Economics.
- Ministry of Agriculture,
Government of Mozambique,
Maputo
\$28,000
For use by the Documentation and Information Centre of the Agricultural Sector in establishing a reference user service.
-
- Ministry of Lands, Agriculture and Water Development,
Government of Zimbabwe,
Harare
\$3,000
For use by the Agronomy Institute of the Department of Research and Specialist Services for a planning workshop for soils/agronomy research in Zimbabwe.
-
- Scientific Committee on Problems of the Environment (SCOPE),
Paris, France
\$18,000
For a workshop entitled "Sustainable Land Management in Sub humid and Semi arid Regions."
-
- T Sengooba, Namulonge
Research Station,
Kampala, Uganda
\$4,400
Toward the costs of a legume research project.
-
- Gordon Sithole, Ministry of Lands, Agriculture, and Water Development,
Harare, Zimbabwe
\$28,000
For a study, "The Liberalization of Agricultural Pricing and Marketing in Zimbabwe Measurement, Evaluation and Implications for Policy."
-
- Soils Management to Overcome Yield Constraints
[\$1,150,000, in addition to remaining funds from prior year appropriations]
To identify and evaluate ideas for overcoming soils-based limitations to sustainable, economic yields in banana and maize cropping systems in the principal agricultural soils of eastern and southern Africa.
- International Centre for Research in Agroforestry (ICRAF),
Nairobi, Kenya
\$37,500
Toward the costs of completing the design phase of the project, "Integrated Natural Resource Management Research for the Highlands of Eastern and Central Africa."
- \$56,000
For research on soil nutrient dynamics and crop yields under hedgerow intercropping with *Calliandra* and *Gliricidia sepium* in P deficient acid soils of West Kenya.
- \$95,000
For research on nutrient recycling in the farming systems on humic nutisols in Embu District of Central Kenya.
- \$700,000
To continue on farm investigations of the adoption potential and impact of agroforestry technologies at project sites in Kenya and Malawi in collaboration with national scientists.
- International Institute of Biological Control, Kenya Station,
Nairobi, Kenya
\$20,000
Toward the costs of a project to evaluate the potential of satellite remote sensing technology for assessing water hyacinth infestations and their control.
- Makerere University,
Kampala, Uganda
\$10,000
In support of the planning phase of a projected Uganda Soil Erosion Network.
- CHK Muchoki, Department of Regional Surveys and Remote Sensing,

Nairobi, Kenya
\$4,800
For a research project, "Land Use Change and its Implication on Future Range Management in Amboseli Ecosystem of the Kapado District The Role of Remote Sensing"

Tropical Soil Biology Fertility and Programme (TSBF), Nairobi, Kenya
\$41,500
For a study of how the addition of stover to cultivated maize plots affects soil properties and processes and crop productivity in two agroecosystems in Kenya.

University of Nairobi, Kenya
\$3,690
Toward the costs of a research project, "The Economics of Fertilizer Use in Maize Production I.C. Among Smallholder Farmers in Kenya."

Tropical Soil Biology and Fertility Programme (TSBF), Nairobi, Kenya
[1993 - \$550,000]
To continue support for its networking and research activities in Africa, including field research projects in Zimbabwe and Zambia.

University of Malawi, Zomba
\$45,000
Toward the costs of a University/Ministry of Agriculture conference to improve policymakers' awareness of the current research efforts in maize, soil fertility, and pest management that focus on the needs of Malawi's small farmers

\$175,000
To improve access to scientific literature in the University of Malawi system and cooperating research agencies

University of Nairobi, Kenya
\$15,000
Toward the costs of a symposium on agricultural policies and food security in East Africa.

\$20,000
Toward the costs of a second phase evaluation of a multi-location, bean pathology project

INCREASING KNOWLEDGE FOR THE MANAGEMENT OF NATURAL RESOURCES

Autonoma Universidad Chapingo, Mexico
\$22,500
Toward the costs of an international training course on agroforestry for ecodevelopment.

Chiang Mai University, Thailand
\$30,000
Toward the costs of a study on indigenous ecological knowledge about the sustainability of tea gardens in the hill evergreen forest of northern Thailand.

GLADES (Consortio Latino Americano sobre Agroecología y Desarrollo), Santiago, Chile
\$30,000
To support agroecology training activities aimed at strengthening human capacity in the region.

Colegio de Postgraduados, Montecillo, Mexico
\$3,390
Toward the costs of the IV International Conference on Arid Lands Development, held in Mexico, July 25-30, 1993

\$32,000
Toward the costs of a symposium to be held in conjunction with the XV International Congress of Soil Science, scheduled for July 1994 in Mexico

East-West Center, Honolulu, Hawaii
\$41,000
For use by its Program on Environment toward the costs of a policy seminar on sustainable forest management.

Essential Agricultural Library [1991 - \$350,000]
To provide the basis for an improved understanding of the agricultural, environmental, and health effects of agricultural pesticide use in developing countries

Cornell University, Ithaca, New York
\$38,240
To complete identification of the agricultural books and journals most important for developing-country libraries

International Fertilizer Development Center (IFDC), Muscle Shoals, Alabama
\$25,000
For a collaborative project with the Soil and Water Department of the Uruguayan Ministry of Agriculture and FUCREA, a farmers' organization, "Farm Level Modeling for Natural Resource Use Planning A Case Study in Uruguay"

International Food Policy Research Institute, Washington, D C
\$25,000
Toward the costs of a meeting organized in collaboration with the UN Population Fund to take stock of current projections of food and population trends over the next 20 years, in preparation for the 1994 UN Population and Development Conference, in Cairo, Egypt. (Joint allocation with Population Sciences, for a total of \$50,160)

Kasetsart University, Bangkok, Thailand
\$15,000
For use by its Faculty of Economics for a case study of sustainable forest management at the Namsa Watershed in North Thailand.

\$39,000
For use by its Faculty of Forestry in conducting case studies on natural regeneration and non-wood forest products in degraded forests of northeastern Thailand.

Manila Observatory, Philippines
\$85,000
For use by its Environmental Research Division toward the costs of a project to analyze management of community forest land.

Natural Resources Management [1993 - \$1,100,000, in addition to remaining funds from prior year appropriations]
To continue a process in which Mexican scientists, smallholders, and members of nongovernmental organizations (NGOs), working in teams, will (1) evaluate a set of existing field projects, located in marginal agricultural areas, (2) use these as "laboratories" for developing sustainable farming and natural resource management models for the areas' resource-poor farmers, and (3) function as a network in bringing new technologies to the attention of smallholders and NGOs

Autonoma Universidad Chapingo, Mexico
\$90,000
Toward the costs of a project on sustainable development of agroecosystems in southern Sinaloa State, to be carried out jointly with the National Institute of Forest and Agricultural Research

Center for Research and Advanced Studies (CINVESTAV), National Polytechnic Institute, Mexico City, Mexico
\$75,000
For use by its Methodology and Theory of Science Section for a sustainable development project in two settlements in the Comarca Lagunera, State of Coahuila.

Centro Indígena de Capacitación Integral, A C, San Cristóbal de las Casas, Mexico
\$70,000
For a community training center for ecodevelopment in the buffer zone of the Montes Azules Reserve in Betania.

Centro de Investigaciones Ecológicas del Sureste, San Cristóbal de las Casas, Mexico
\$80,000
For research on alternatives for sustainable production in the Los Altos area of Chiapas States

- Colégio de Postgraduados,
Montecillo, Mexico
\$80,000
For use by its Center for the Humid Tropics in Veracruz in research on natural resources management in wetlands at the low Papaloapan River watershed.
- Estudios Rurales y Asesoría, A.C.,
Oaxaca, Mexico
\$80,000
Toward the costs of helping the communities of Zapoteco and Chinanteca, which together own 30,000 hectares (two-thirds forest land) in the Sierra Norte region of Oaxaca, to develop an environment management capacity.
- Instituto Tecnológico y de Estudios Superiores de Monterrey,
Monterrey, Mexico
\$30,000
For use by its Center for International Competitiveness in research on the management and rehabilitation of saline and sodic soils in Vaquerías, State of Nuevo Leon.
- Maderas del Pueblo del Sureste, A.C.,
Mexico City, Mexico
\$40,000
For a project concerned with alternatives for development and community participation in Chimalapas, Oaxaca.
- Universidad Nacional Autónoma de México,
Mexico City
\$100,000
For use by its School of Science for research on sustainable management of natural resources in the community of San Nicolás Zoyatlán, Guerrero State.
- Organización de Ejidos Forestales de la Zona Maya,
Felipe Carrillo Puerto, Mexico
\$90,000
Toward the costs of a natural resources management improvement project in the Mayan region.
- Servicios para el Desarrollo, A.C.,
Ixmiquílpan, Mexico
\$50,000
Toward the costs of natural resources management improvement in the Mezquital valley, Hidalgo State.
- Union de Ejidos y Comunidades de Cafecultores del Beneficio Majomut,
San Cristóbal de las Casas, Mexico
\$50,000
Toward the costs of field studies and promotion of the use of improved production technology by small farmers who grow coffee in the Los Altos area of Chiapas State.
- Universidad Autónoma de Yucatán,
Merida, Mexico
\$50,000
For use by its Management and Conservation of Tropical Natural Resources Program for research in the community of Sahcabá, State of Yucatán, and for support of the graduate program at the University.
- Universidad de Colima,
Mexico
\$50,000
For use by its Center for Economic Research in research on sustainable development in the "Sierra de Manantlán" Biosphere Reserve, Jalisco State.
- Foundation-administered projects
\$30,000
For the costs of Foundation planning activities leading to the implementation of a natural resources management program for Mexico.
- \$50,000
To support administrative and network activities related to the Natural Resources Management Program for Mexico.
- \$30,000
Toward the costs of completing planning activities for the implementation of a Natural Resources Management Program for Mexico.
- Pesticide Use: Environment and Health
[1991 - \$600,000]
To provide the basis for an improved understanding of the agricultural, environmental, and health effects of agricultural pesticide use in developing countries. (Joint appropriation with Health Sciences for a total of \$800,000.)
- Stanford University,
California
\$70,000
For use by its Institute for International Studies toward the costs of a conference on herbicide use in Asian rice production.
- Plant Science Human Capital for Latin America
[1992 - \$650,000, in addition to remaining funds from prior appropriations]
To strengthen the capacity of Latin American institutions to provide advanced training and conduct research in the disciplines that undergird sustainable utilization and conservation of tropical forest.
- New York Botanical Garden,
Bronx, New York
\$300,000
For use by its Institute of Economic Botany in carrying out a project to stimulate the development of local capabilities in neotropical economic botany.
- Substitutes for Slash-and-Burn in the Western Amazon
[\$600,000, in addition to prior funds for allocation by the officers]
To develop sustainable agroforestry systems for the western Amazon as a way of slowing continuous deforestation in the region.
- Empresa Brasileira de Pesquisa Agropecuária (EMBRAPA)
Manaus, Brazil
\$40,000
For use by its Centro de Pesquisa Agroflorestal da Amazonia Ocidental (CPAA) for a joint project with the University Amazonas, and the Instituto Nacional de Pesquisas Amazonicas (INPA) for on-farm testing of agroforestry alternatives to slash-and-burn cultivation by migrant small farmers at Presidente Figueiredo, Amazonas.
- North Carolina State University,
Raleigh
\$500,000
To develop sustainable agroforestry systems for the western Amazon as a way of slowing continuous deforestation in the region.
- Universidad Autónoma Chapingo,
Mexico
\$80,000
In continued support of planning, training, and curriculum development at its Center of Agroforestry for Sustainable Development.
- University of Florida,
Gainesville
\$25,000
Toward the costs of a planning committee to identify opportunities for collaboration among U.S. universities, Consultative Groups on International Agricultural Research (CGLAR) centers, and the National Agricultural Research Service (NARS) in an effort to increase agricultural productivity in a sustainable manner for the developing world. (Joint allocation with Agricultural Sciences, for a total of \$65,000.)
- World Resources Institute,
Washington, D.C.
\$125,000
Toward the costs of revisiting economic projections made in the 1960s about India to gain a better understanding of the relationships between population growth, poverty, and environmental decline.
- World Wildlife Fund,
Washington, D.C.
\$15,000
Toward the costs of a study, "Raising Yields: The Key to Increasing Food Supplies in the Future."
- Biotechnology Career Fellowships
[1993 - \$440,000, in addition to remaining funds from prior year appropriations]
To assist excellent young scientists based in the developing world to become leaders in the development and application of biotechnology that offers promise for improving the living conditions of poor people. (Jointly funded with Health Sciences and Population Sciences, for a total of \$1,140,000.)

Research Fellowships in the Agricultural Sciences
[1993 \$500,000, in addition to remaining funds from prior year appropriations]
To build a cadre of outstanding young agricultural researchers with problem directed experience obtained by working with Foundation grantee institutions in developing countries where the Foundation has field offices

Social Science Research Fellowships
[1993 \$1,000,000, in addition to remaining funds from prior year appropriations]
To build a cadre of outstanding North American and African social scientists having experience as members of multi disciplinary teams of international agricultural research institutes, and, in the process, to help those institutes (1) enhance their outreach to national agricultural research systems, and (2) incorporate farmer knowledge into problem identification and research strategy formulation.

International Clinical Epidemiology Network
[1993 \$4,900,000, in addition to remaining funds from prior year appropriations]
To continue support for core activities of the International Clinical Epidemiology Network (INCLEN), the training provided by both Southern and Northern clinical epidemiology resource and training centers (CERTCs), and further transfer of training responsibility to Southern institutions with clinical epidemiology units

INCLEN, Inc.,
Philadelphia, Pennsylvania
\$365,900
In support of (1) activities associated with the transfer of training responsibility to developing country clinical epidemiology units, and (2) travel by INCLEN faculty to attend meetings convened outside the network.

\$1,135,000
In core support of its Executive Office and program management activities

\$48,131
Toward the costs of the 11th annual meeting of INCLEN, held in Cairo, Egypt, January 24-29, 1993

International Epidemiological Association,
Los Angeles, California
\$38,000
Toward the costs of its XIII International Scientific Meeting, held in Sydney, Australia, September 26-29, 1993

Khon Kaen University,
Thailand
\$25,000
In core support of its Clinical Epidemiology Unit.

McMaster University,
Hamilton, Ontario, Canada
\$1,050,000
In support of its Clinical Epidemiology Resource and Training Center

Mahrdol University,
Bangkok, Thailand
\$25,000
In core support of its Clinical Epidemiology Unit.

Makerere University,
Kampala, Uganda
\$12,000
Toward the costs of planning and developing a pharmaco-epidemiology project at its Clinical Epidemiology Unit

\$5,950
In support of a study to determine the extent of compliance with chemotherapy treatment among tuberculosis patients at Mulago Hospital as a factor bearing on such treatment's effectiveness

Health Sciences Grants

The Health Sciences division supports work that uses pharmacology and vaccinology to treat and prevent major diseases of the developing world. The division also supports work that builds capacity in the developing world for population based health care.

INHCANING NATIONAL CAPABILITY FOR POPULATION BASED HEALTH CARE

Biomass User's Network, Inc.,
Washington, DC
\$125,000

In support of a project to assess the health impact of exposure to indoor air pollution from traditional biomass fuel use and identify possible intervention strategies

Exploration on Health and the Environment
[1993 \$300,000, in addition to remaining funds from prior year allocations]
To investigate interactions between health and the environment in the Amazon region of Brazil.

Universidade Federal de Minas Gerais for use by its Center for Regional Planning and Development (CEDEPLAR), Minas Gerais, Brazil
\$400,000
In support of a research study on human health and effective utilization of tropical forests

Gadjah Mada University,
Yogyakarta, Indonesia
\$11,000
To revise and complete a research study for publication, "Policy Research Methodology in Public Health."

Harvard University,
Cambridge, Massachusetts
\$50,000
For a research project on the health implications of global socioeconomic, environmental, and demographic transformations in developing countries

\$10,000
Toward the costs of a workshop on emerging diseases, held at Wood's Hole, Massachusetts, November 7-10, 1993

\$30,000
For completion of a case study on the global burden of disease

Hesperian Foundation,
Palo Alto, California
\$25,000
Toward the publication costs of a Spanish edition of *Where There is No Doctor*

Addis Ababa University,
Ethiopia
\$10,000
In support of a research project on the frequency, types, causes, outcomes, and hospital costs of head injury cases admitted to Addis Ababa hospitals during a two year interval, with attention to risk factors and preventive measures

\$65,000
In core support of its Clinical Epidemiology Unit.

Chulalongkorn University,
Bangkok, Thailand
\$253,600
In support of its training responsibilities within INCLEN on behalf of the Thai consortium.

Escola Paulista de Medicina,
São Paulo, Brazil
\$25,000
In core support of its Clinical Epidemiology Unit.

\$5,000
In support of a clinical epidemiology research project to assess the quality of life in families having a schizophrenic member

\$100,000
In support of its transition toward assuming training responsibilities within INCLEN

Gadjah Mada University,
Yogyakarta, Indonesia
\$5,000
In support of a research project in biostatistics

\$208,400
In support of its training responsibilities within INCLEN

\$25,000 <i>In core support of its Clinical Epidemiology Unit.</i>	\$5,000 <i>In support of a social science research project on quantitative and qualitative approaches to measuring child abuse in a high-risk population in Chile</i>	\$175,000 <i>In support of its training responsibilities within INCLEN</i>	Mexican Social Security Institute, Mexico City \$50,000 <i>Toward the costs of a research project to develop and test specific recommendations on oral hydration therapy</i>
\$5,000 <i>For data analysis and preparation of a paper entitled "High Risk Behaviour for HIV Transmission."</i>	University of Arizona, Tucson \$100,000 <i>To continue support for the social science education program within INCLEN</i>	University of Rio de Janeiro, Brazil \$25,000 <i>In core support of its Clinical Epidemiology Unit.</i>	Ministry of Health, Harare, Zimbabwe \$10,000 <i>For use by its Blair Research Institute toward the costs of the All Africa Conference on Tobacco Control in Harare, Zimbabwe, held November 14-17, 1993</i>
Pontificia Universidad Javeriana, Bogota, Colombia \$175,000 <i>In support of its training responsibilities within INCLEN</i>	University of Chile, Santiago \$50,000 <i>In core support of its Clinical Epidemiology Unit.</i>	University of Toronto, Ontario, Canada \$187,025 <i>In support of the 1993 courses in Health Care Evaluation and Management Skills and Level II Management Training</i>	Ministry of Public Health of Thailand, Bangkok [1993 \$350,000] <i>To continue support for the core activities of its Thailand Health Research Institute/National Epidemiology Board of Thailand</i>
Shanghai Medical University, China \$35,500 <i>In support of its transition toward assuming training responsibilities within INCLEN</i>	\$10,000 <i>In support of a research project examining the possible neurotoxic effects of exposure to methyl bromide—an agricultural fumigant used worldwide but regarded in the US as a potential carcinogen—among fruit packers in Chile</i>	University of Yaounde, Cameroon \$25,000 <i>For use by its Centre for Health Sciences in core support of its Clinical Epidemiology Unit.</i>	National Epidemiology Boards [1993 \$700,000] <i>To continue support for core activities of the epidemiology boards in Thailand and Mexico</i>
\$10,000 <i>For use by Hua Shan Hospital in conducting a large-scale epidemiological investigation of the respiratory disorder known as mushroom workers' lung</i>	University of Nairobi, Kenya \$15,636 <i>In core support of its Clinical Epidemiology Unit.</i>	University of Zimbabwe, Harare \$5,000 <i>In support of a clinical epidemiology research project on preterm labor and maternal infection.</i>	Partnership for Child Development [1993 \$1,000,000, in addition to remaining funds from prior year appropriations] <i>To phase out support for studies by developing countries on the feasibility and cost effectiveness of providing children with anthelmintic (anti worm) and micronutrient chemotherapy via the school system.</i>
\$25,000 <i>In support of a collaborative clinical epidemiology/health economics research study in Shanghai County</i>	University of Newcastle, New South Wales, Australia \$547,100 <i>In support of its Clinical Epidemiology Resource and Training Center and for expansion of the distance learning programs in Africa and China.</i>	West China University of Medical Sciences, Chengdu \$50,000 <i>In core support of its Clinical Epidemiology Unit.</i>	Imperial College of Science, Technology and Medicine, London, England \$112,825 <i>Toward the costs of research and assessment activities in developing countries and technical assistance by the Scientific Coordinating Centre</i>
Suez Canal University, Ismailia, Egypt \$25,000 <i>In core support of its Clinical Epidemiology Unit.</i>	University of North Carolina, Chapel Hill \$401,550 <i>In support of its Clinical Epidemiology Resource and Training Center</i>	International Development Research Centre, Ottawa, Ontario, Canada \$25,000 <i>In final support for the Task Force on Health Research for Development.</i>	Shanghai Second Medical University, China \$18,000 <i>For the completion of an epidemiologic and biostatistic collaborative research project</i>
\$5,000 <i>In support of a cost-effectiveness study for immunizing newborn infants against hepatitis B infection in Egypt.</i>	University of Pennsylvania, Philadelphia \$305,050 <i>In support of its Clinical Epidemiology Resource and Training Center</i>	International Society for Infectious Diseases, Boston, Massachusetts \$24,950 <i>In support of developing country participation at its congress in Prague, Czech Republic, to be held April 26-30, 1994</i>	
Universidad de la Frontera, Temuco, Chile \$5,000 <i>In support of a clinical epidemiology research project to develop and validate a survey instrument for detecting alcohol abuse among the Mapuche population of Region IX, Chile</i>	University of the Philippines, Manila \$5,000 <i>In support of a clinical epidemiology research project on premature rupture of membranes and the possible risk of neonatal sepsis</i>		

Social Science Research Council,
New York, New York
\$65,500

For comparative ethnographic case studies on the differences and similarities of health and mental health problems in developing countries

Task Force for Child Survival
and Development,
Atlanta, Georgia
\$55,700

For the orderly termination of its program to provide technical assistance to the Ugandan Ministry of Health

United Nations Development
Programme,
New York, New York
\$50,000

For an inter disciplinary initiative in environment, development, and health.

University of Ottawa,
Ontario, Canada
\$10,000

Toward the costs of a conference, "International Needs-Based Technology Assessment," held November 18-20, 1993

University of Yaounde,
Cameroon
\$55,000

For use by the Automation and Control Laboratory of its Ecole Nationale Supérieure Polytechnique toward the costs of operationalizing the Unit for Health Technology

World Health Organization,
Geneva, Switzerland
\$25,000

Toward the costs of its meeting of the Global Network of Collaborating Centre Directors for Arboviruses and Haemorrhagic Fevers, October 28-29, 1993, held at the Centers for Disease Control, Atlanta, Georgia.

\$100,000

For use by its Tropical Diseases Research Program to support the development of a methodology to rank by priority the research needs for global infectious disease

Foundation-administered project
\$13,450

To support site visits and information gathering of the Egyptian Committee of Epidemiology

FAMILY AND COMMUNITY
BASED HEALTH INITIATIVES

Action Research to Improve
Reproductive Health Service
Delivery

[1993 - \$300,000]

To support action research in selected developing countries to identify sustainable models for expanding access to and improving the quality of reproductive health services, especially for adolescents (Joint appropriation with Population Sciences, for a total of \$1,100,000)

Brandeis University,
Waltham, Massachusetts
\$27,000

In support of a conference to discuss the findings and recommendations of the external evaluation of the Health and Population Program of Caravajal Foundation in Cali, Colombia

Commonwealth Regional Health
Community Secretariat for East,
Central, and Southern Africa,
Arusha, and Tanzania

[1993 - \$175,000, in addition to remaining funds from prior year appropriations]

To encourage greater integration of reproductive health and population issues in the health and development policies of African countries (Joint appropriation with Population Sciences, for a total of \$400,000)

Community-Based Prevention of
Dengue

[1993 - \$1,200,000, in addition to remaining funds from prior year appropriations]

To phase out support for community-based approaches in Honduras and Mexico to integrated control of the urban mosquito vector of dengue and also yellow fever

Johns Hopkins University,
Baltimore, Maryland
\$150,000

To continue monitoring and management of the program in Honduras and Mexico on community-based approaches to integrated control of Aedes aegypti

Ministry of Health of Mexico,
Mexico City
\$259,630

To continue support of Mexico's community-based program for controlling the mosquito vector of dengue, Aedes aegypti (With debt swap)

Tulane University,
New Orleans, Louisiana
\$49,950

For use by its Medical Center to continue support of a project on the use of cyclops and copepods for Aedes aegypti control in El Progreso, Honduras

Foundation-administered project
\$30,000

For administrative costs

Family Care International,
New York, New York
\$20,000

For the development of a reproductive health training curriculum and a project in collaboration with the Ministry of Health of Ghana to improve the quality of its maternal health and family planning services (Joint grant with Population Sciences, for a total of \$50,000)

HIV in the Developing World
[1992 - \$750,000, in addition to remaining funds from prior year appropriations]

To help developing countries improve their national research and private-sector capabilities for controlling the spread of the human immunodeficiency virus (HIV) infection. (Joint appropriation with Population Sciences, for a total of \$1,500,000)

AIDS Counselling Trust,
Harare, Zimbabwe
\$5,000

Toward the costs of the third conference of the Southern African Network of AIDS Service Organisations (Joint allocation with Population Sciences, for a total of \$10,000)

AIDS Society of Asia & the
Pacific,
Randwick, New South Wales,
Australia
\$12,500

Toward the costs of the first International Congress on AIDS in Asia and the Pacific, held in New Delhi, India, November 8-12, 1992 (Joint allocation with Population Sciences, for a total of \$25,000)

Australian National University,
Canberra
\$37,400

For use by its Health Transition Centre for support of the West African Research Group on Sexual Networking (Joint allocation with Population Sciences, for a total of \$74,800)

Centro de Estudo e Pesquisa em
Saude Coletiva,
Rio de Janeiro, Brazil
\$50,000

Toward the costs of developing an international working group on sexual behavior research. (Joint allocation with Population Sciences, for a total of \$100,000)

Chuang Mai University,
Thailand
\$20,295

For the pilot phase of the follow-up study of the Thai Military Male Health Research Project. (Joint allocation with Population Sciences, for a total of \$40,590)

Chulalongkorn University,
Bangkok, Thailand
\$30,525

For a study of the social influences on male sexual behavior in Thailand, to be undertaken at its Institute of Population Studies in collaboration with the University of Michigan. (Joint allocation with Population Sciences, for a total of \$61,050)

Commonwealth Youth Programme Africa Centre, Lusaka, Zambia
\$5,000
For the publication and dissemination of the proceedings of an African regional conference for young people with HIV/AIDS (Joint allocation with Population Sciences, for a total of \$10,000)

Institute of Tropical Medicine, Antwerp, Belgium
\$50,000
To provide technical assistance for an intervention study of sexually transmitted diseases and HIV infection among female prostitutes in Abidjan, conducted by the Ministry of Health, Ivory Coast. (Joint allocation with Population Sciences, for a total of \$100,000)

International Family Health, London, England
\$57,500
For the coordination of a project supporting the development of a potential new effort, the HIV/AIDS NGO Support Programme, aimed at increasing international donor assistance to developing-country non-governmental organizations working in the field. (Joint allocation with Population Sciences, for a total of \$115,000)

National Council for International Health, Washington, D C
\$5,000
Toward the costs of a workshop on building capacity within indigenous groups responding to the HIV/AIDS pandemic (Joint allocation with Population Sciences, for a total of \$10,000)

National Institute of Public Health, Cuernavaca, Mexico
\$65,888
In continued support of a pilot study in Mexico—part of a multi-country intervention trial—regarding commercial sex workers and HIV transmission. (Joint allocation with Population Sciences, for a total of \$131,775) (With debt swap)

Network of AIDS Researchers of Eastern and Southern Africa (NARESA), Nairobi, Kenya
\$32,750
In support of its regional AIDS activities (Joint allocation with Population Sciences, for a total of \$65,500)

University of Dar es Salaam, Tanzania
\$91,230
For use by its Muhumbili Medical Centre in expanding an HIV intervention study among women attending selected family planning clinics in Dar es Salaam. (Joint allocation with Population Sciences, for a total of \$132,460)

Foundation administered projects
\$15,000
For administrative expenses related to improving non-governmental responses to HIV/AIDS in developing countries (Joint allocation with Population Sciences, for a total of \$30,000)

\$100,000
For the costs associated with planning for a Foundation prize for the development of rapid, reliable, and inexpensive diagnostic tests for gonorrhea and chlamydia, suitable for use in resource poor settings (Joint allocation with Population Sciences, for a total of \$200,000)

International Center for Research on Women, Washington, D C
\$19,940
For the development of collaborative research projects on adolescent sexuality and fertility with non-governmental organizations in Madarashtra, India. (Joint grant with Population Sciences, for a total of \$39,880)

Kenya Medical Women's Association, Nairobi
\$12,500
Toward the costs of a regional congress held in Nairobi concerning the health of women and safe motherhood. (Joint grant with Population Sciences, for a total of \$25,000)

Makerere University, Kampala, Uganda
\$12,500
To enable African delegates from outside of Uganda to attend the 7th International Women and Health meeting held in Kampala, September 1993 (Joint grant with Population Sciences, for a total of \$25,000)

Ministry of Health, Accra, Ghana
\$75,000
Toward the costs of a project to be undertaken in a rural area of Ghana's Upper East region, under the auspices of the Navrongo Health Research Centre, to develop a model for national primary health care and family planning services (Joint allocation with Population Sciences, for a total of \$175,000)

Population Council, New York, New York
[1993 - \$50,000]
Toward the work of its Robert H Ebert Program on Critical Issues in Reproductive Health and Population in defining and testing methods to improve the quality of reproductive health care and disseminating the results widely (Joint appropriation with Population Sciences, for a total of \$500,000)

Public Health Schools Without Walls
[1993] \$450,000, in addition to remaining funds from prior year appropriations]
To continue the testing in Zimbabwe of a field-based graduate degree training course for senior public health officers, and to support the start-up of a similar course in Uganda. (Joint appropriation with Population Sciences, for a total of \$650,000)

Makerere University, Kampala, Uganda
\$26,750
For a needs assessment study and a curriculum development workshop to design a Master of Public Health Program under the auspices of the Public Health Schools Without Walls initiative (Joint allocation with Population Sciences, for a total of \$53,500)

Tulane University, New Orleans, Louisiana
\$14,925
For use by its Medical Center to provide technical assistance to the University of Zimbabwe for the Public Health Schools Without Walls Program. (Joint allocation with Population Sciences, for a total of \$29,850)

University of Zimbabwe, Harare
\$24,100
To support the development of its Master of Public Health Programme under the auspices of the Public Health Schools Without Walls initiative

\$15,000
For expenses related to advisor site visits to work with the University of Zimbabwe and the Ministry of Health in the design of its curriculum for the Public Health Schools Without Walls initiative (Joint allocation with Population Sciences, for a total of \$30,000)

Foundation-administered project
\$40,000
For development of a public health network and expenses of the advisory committee (Joint allocation with Population Sciences, for a total of \$60,000)

University of California, Davis
\$960
In support of a collaborative study with the University of Malawi and Ahmadu Bello University, Nigeria, on cultural and behavioral risk factors for sexually transmitted diseases among sub-Saharan African women. (Joint grant with Population Sciences, for a total of \$1,920)

University of North Carolina, Chapel Hill
\$100,000
In final support of a collaborative project with the Indian Institute of Health Management Research, Jaipur, to establish a master's degree in the Public Health Program in India for Mid-Career Health Professionals

Women for Women's Health
[1993] - \$700,000, in addition to
remaining funds from prior year
appropriations]

To help Malawi and Uganda
develop the capacity for training
increased numbers of nurse-
midwives and upgrading their
skills and status as a way of
bringing about sustained reduction
in maternal mortality and mor-
bidity (Joint appropriation with
Population Sciences, for a total of
\$1,300,000)

Case Western Reserve University,
Cleveland, Ohio
\$80,000

To continue funding of the
"Women for Women's Health
Initiative" in Uganda. (Joint
allocation with Population
Sciences, for a total of \$160,000)

\$182,925

For final funding of the "Women
for Women's Health Initiative in
Uganda." (Joint allocation with
Population Sciences, for a total of
\$365,850)

Makerere University,
Kampala, Uganda
\$49,950

For start up costs of the BSc
degree in Nursing Program for
the "Women for Women's Health
Initiative" (Joint allocation with
Population Sciences, for a total of
\$99,900)

University of Pennsylvania,
Philadelphia
\$119,000

To continue funding of the
"Women for Women's Health
Initiative" in Malawi. (Joint
allocation with Population
Sciences, for a total of \$238,000)

World Health Organization,
Geneva, Switzerland
\$17,500

Toward the costs of a meeting
organized by its Maternal Health
and Safe Motherhood Program to
prepare a "mother-baby package"
designed to improve services dur-
ing pregnancy and delivery in
countries where the need is great-
est. (Joint grant with Population
Sciences, for a total of \$35,000)

PREVENTING DEVELOPING
COUNTRY DISEASES
THROUGH VACCINOLOGY
AND PHARMACOLOGY

American College of Clinical
Engineering,
Houston, Texas
\$5,000

Toward the costs of the Second
International Advanced Clinical
Engineering Workshop held
May 13-June 12, 1993

Children's Vaccine Initiative
[1993] \$1,300,000, in addition to
remaining funds from prior year
appropriations]

To support vaccine research pro-
grams and other activities related
to the development and distribu-
tion of children's vaccines in
developing countries

Shoko Nagaya, M D,
New York, New York
\$50,000

To undertake a feasibility study
and write a strategy paper on
children's vaccine development
efforts in selected developing coun-
tries

World Health Organization,
Geneva, Switzerland
\$350,000

Toward the costs of the
Consultative Group of the
Children's Vaccine Initiative

\$50,000

Toward the costs of a communica-
tions strategy to enhance public
understanding of the Children's
Vaccine Initiative

Health Sciences for the Tropics
[1991] \$1,700,000, in addition to
remaining funds from prior year
appropriations]

To strengthen the capacity of
developing countries to conduct
research on major tropical diseases
through North-South and South
South research partnerships

American Society of Tropical
Medicine and Hygiene,
McLean, Virginia
\$45,000

For partial support of its annual
meetings to promote scientific
exchange and collaboration in
developing countries

Brown University,
Providence, Rhode Island
\$58,850

For collaborative research with the
Walter and Eliza Hall Institute of
Medical Research, Melbourne,
Australia, the Research Institute of
Tropical Medicine, Manila,
Philippines, and the University of
the Philippines College of Public
Health on schistosomiasis surveil-
lance and control in the
Philippines

Center for Research and
Advanced Studies (CINVESTAV)
of the National Polytechnic
Institute,
Mexico City, Mexico
\$130,567

In further support of a research
and training project to analyze the
biological and epidemiological fac-
tors of amebiasis and giardiasis in
Mexico, collaborative with the
University of California at San
Francisco (With debt swap)

Medical Research Council,
London, England
\$102,620

For support of clinical and epi-
demiological research studies on
malaria to be undertaken by its
Medical Research Council
Laboratories in Gambia.

National Institute of Allergy and
Infectious Diseases,
Bethesda, Maryland
\$63,900

For continued collaboration with
the Parasitology Institute of the
University of Rome, Italy, and the
École Nationale de Médecine et
de Pharmacie, Bamako, Mali, on a
research and training project to
develop effective methods of
malaria control in Africa.

New England Medical Center
Hospitals, Inc.,
Boston, Massachusetts
\$93,500

For a research and training pro-
ject, collaborative with the
Christian Medical College
Hospital, Vellore, India, on the
molecular, clinical, and epidemio-
logical aspects of diarrheal
diseases in India.

Queensland Institute of Medical
Research,
Brisbane, Australia
\$81,950

For collaborative research with the
International Health Institute at
Brown University, the Research
Institute of Tropical Medicine,
Manila, Philippines, and the
University of the Philippines
College of Public Health on schis-
tosomiasis surveillance and control
in the Philippines

Research Institute of Tropical
Medicine,
Manila, Philippines
\$100,000

In support of the WHO/TDR/RF
partnership schistosomiasis sympo-
sium, held November 8-12, 1993

Tulane University,
New Orleans, Louisiana
\$44,850

For use by its Medical Center to
provide technical assistance for the
WHO/TDR/RF malaria research
project in Bamako, Mali.

University of Edinburgh,
Scotland
\$25,000

For a research and training project
on the immunological and epidemio-
logical aspects of malaria, being
conducted collaboratively by its
Institute of Cell, Animal, and Popu-
lation Biology, the Department of
Parasitology of the University of
Colombo, Sri Lanka, and the
Institut Pasteur, Paris, France

Program for Appropriate
Technology in Health (PATH),
Seattle, Washington
\$50,000

In continued support of its pro-
gram to develop and introduce a
vaccine against Epstein-Barr virus

STD Prize

[1993] - \$1,100,000, in addition to
remaining funds from prior year
appropriations]

To create a Rockefeller
Foundation prize of \$1,000,000 for
the development of rapid, reliable,
inexpensive diagnostic tests for
gonorrhoea and chlamydia, suitable
for use in resource-poor settings

Thomas Jefferson University,
Philadelphia, Pennsylvania
\$25,000

For use by its medical college in investigating the utility of monoclonal antibodies in the post-exposure treatment of rabies

University of Colombo,
Sri Lanka
\$100,000

In support of a conference on malaria pathogenesis and clinical manifestations as a conclusion to the TDR/RF partnership work in malaria to be held January 16-19, 1994 in Sri Lanka.

University of Pennsylvania Press,
Philadelphia
\$15,000

For the publication of a book on the history of the fight against the hepatitis pandemic in the United States and overseas

Vaccine Production Technology
Transfer

[1993 - \$1,200,000, in addition to remaining funds from prior year appropriations]

To make the production of tissue-culture-based viral vaccines a generic process available at moderate cost to developing countries

Chengdu Institute of Biological
Products,
Sichuan, China
\$250,000

For Phase I design and planning of a facility for producing its new vaccine against encephalitis

IAF BioVac, Inc.,
Montreal, Canada
\$550,000

For technical assistance in making rabies vaccine production technology available at moderate cost to developing countries

University of Pennsylvania,
Philadelphia
\$32,100

For a case-control study of the efficacy of live attenuated Japanese encephalitis vaccine developed in China in conjunction with the West China University of Medical Sciences

VECOL (Empresa Colombiana de
Productos Veterinarios S A),
Bogota, Colombia
\$200,000

For costs associated with its production of a purified human rabies vaccine

West China University of
Medical Sciences,
Chengdu, Sichuan
\$59,700

For a case control study of the efficacy of live-attenuated Japanese encephalitis vaccine developed in China in conjunction with the University of Pennsylvania.

Foundation-administered project
\$30,000

Toward the costs of a meeting on data assessment needs for pneumococcal and H influenzae vaccine development.

FELLOWSHIPS

Biotechnology Career Fellowships
[1993 \$400,000, in addition to remaining funds from prior year appropriations]

To assist excellent young scientists based in the developing world to become leaders in the development and application of biotechnology that offers promise for improving the living conditions of poor people (Jointly funded with Agricultural Sciences and Population Sciences, for a total of \$1,140,000.)

Population Sciences Grants

The Population Sciences division seeks to enhance reproductive choice in the developing world by supporting work to develop new contraceptive technologies, increase the availability of existing technologies, and identify the constraints, risks, and barriers that affect contraceptive use. The division also supports selected developing countries in order to strengthen the professional competence needed to establish population policies and effective management of family-planning programs

DEVELOPING TECHNOLOGY FOR FERTILITY REGULATION

American College of Obstetricians
and Gynecologists,
Washington, D C
\$50,000

Toward the costs of its National Advisory Board on Ethics in Reproduction.

Asociacion Dominicana Pro-
Bienestar de la Familia, Inc.,
Santo Domingo, Dominican
Republic
\$50,000

To strengthen the research capacity of the department of biomedical research.

Catholic University of Chile,
Santiago
\$28,450

For a study in its Faculty of Biological Sciences on the role played by calcium in the control of ciliary movement in the oviduct.

Contraceptive Introduction
Projects

[1992 - \$2,325,000, in addition to remaining funds from prior year appropriations]

To promote field studies and operations research in developing countries as their family planning programs introduce new contraceptive methods (Other grants from this appropriation are listed under the division's second guide line, Improving Population Policies and Programs.)

Concept Foundation,
Bangkok, Thailand
\$500,000

Toward the costs (1) of quality assurance and processing improvements in local manufacture and distribution of the injectable contraceptive Cyclofem™, (2) the production and dissemination of educational materials instructing the medical community and consumers about its proper use, and (3) expansion of programs to increase use of this method.

Kenya Medical Research
Institute,
Nairobi
\$185,000

For a contraceptive technology introduction and surveillance program in the Machakos District of Kenya.

The Population Council,
New York, New York
\$400,000

To enable it to participate in a postmarketing surveillance of Norplant contraceptive implants in developing countries

World Health Organization,
Geneva, Switzerland
\$700,000

For monitoring health, safety, and acceptability issues of the Norplant contraceptive method.

Cornell University,
Ithaca, New York
\$51,750

For a project, collaborative between its Medical College and the Institute of Materna Medica and Family Planning Research of the Zhejiang Academy of Medicine, China, on the clinical pharmacology of contraception.

Egyptian Fertility Care Society,
Cairo
\$159,690
To complete Norplant acceptability studies in Egypt.

Johns Hopkins University,
Baltimore, Maryland
\$25,000
Toward the costs of a project at its School of Medicine on the interaction between estradiol and insulin like growth factor-I in the regulation of corpus luteum function.

Research Support for Population Scientists Returning to Developing Countries [1992 - \$500,000, in addition to remaining funds from prior year appropriations]
To provide research support for population scientists returning to their home countries at the completion of their fellowships (Other grants from this appropriation are listed under the division's second guideline, Improving Population Policies and Programs)

Instituto de Biología y Medicina Experimental,
Buenos Aires, Argentina
\$35,000
For a study of the potential contraceptive use of an epididymal protein that participates in fertilization.

Instituto de Investigaciones Bioquímicas Fundación Campomar,
Buenos Aires, Argentina
\$30,000
For a study of the modulation of calcium homeostasis in Sertoli cells

Research on Topics Related to the Clinical Applications of Gossypol [1990 - \$500,000, in addition to remaining funds from prior year appropriations]
To support research on the antifertility and antiviral activity of gossypol.

North Carolina State University,
Raleigh
\$59,580
For a study of gossypol's effects on gene structure and function in rat spermatoocytes

Tel Aviv University,
Israel
\$23,000
For a study of gossypol's effects on sperm proteins

Zhejiang Academy of Medical Sciences,
Hangzhou, China
\$35,000
For a study of spermatozoal enzymes sensitive to gossypol's antifertility action as a warning indicator for monitoring the occurrence of gossypol-induced sterility

Second Contraceptive Technology Revolution [1993 - \$2,000,000]
To initiate funding for the component, "Mobilization of Resources to Launch a Second Contraceptive Technology Revolution."

Chinese Academy of Sciences,
Beijing, China
\$200,000
For use by the Institute of Developmental Biology's Open Laboratory of Molecular Embryology for training and research in fertility regulation.

National Academy of Sciences,
Washington, D C
\$250,000
Toward the costs of a project of the Institute of Medicine concerning new opportunities for public and private sector collaboration in the application of biotechnology to contraceptive research and development.

National Institute of Nutrition Salvador Zubiran,
Mexico City, Mexico
\$200,000
For a project designed to strengthen human capital and research infrastructure capability to apply the techniques of molecular and cell biology and biotechnology to fertility regulation.

The Population Council,
New York, New York
\$210,000
For the development and evaluation of microbucidal compounds for intravaginal use in preventing the sexual transmission of the human immunodeficiency virus

Program for Appropriate Technology in Health (PATH),
Seattle, Washington
\$56,240
For a feasibility study of market-related issues affecting the participation of the private sector in contraceptive development.

Rush-Presbyterian-St Luke's Medical Center,
Chicago, Illinois
\$200,000
For the development of vaginal contraceptives that provide protection against sexually transmitted diseases

University of Arizona,
Tucson
\$100,000
For a project at its Cancer Center to develop a virucidal product that women can use as protection against sexually transmitted HIV

South to South Cooperation in the Population Sciences [1990 - \$2,000,000, in addition to remaining funds from prior year appropriations]
To support South-to-South Cooperation in the population sciences and reproductive health.

Asociación Dominicana Pro-Bienestar de la Familia, Inc.,
Santo Domingo, Dominican Republic
\$5,900
For training and networking activities at its department of biomedical research based on the principle of South-to-South Cooperation.

Organização Internacional de Pesquisa em Saúde Reprodutiva,
Salvador, Brazil
\$15,000
In support of studies on three products it is developing by a consultant working at the University of Salzburg, Austria.

University of Buenos Aires,
Argentina
\$35,000
For a study in its Faculty of Pharmacy and Biochemistry on oxidative damage to sperm and its relevance to human fertility

University of Chile,
Santiago
\$25,000
For a study of the effects of endometrial and tubal fluid on the process of capacitation of human spermatozoa.

University of Oklahoma Health Sciences Center,
Oklahoma City
\$90,000
For a project on human immune response to sperm.

IMPROVING POPULATION POLICIES AND PROGRAMS

Badan Koordinasi Keluarga Berencana Nasional (National Family Planning Coordinating Board),
Jakarta, Indonesia
\$25,000
Toward the costs of a meeting on population and family planning for non-aligned developing countries, held in Bali, Indonesia, in July 1993

\$100,000
Toward the costs of a ministerial meeting on population held by the Non-Aligned Movement in Bali in November 1993

Bellagio Population and Development Forum [1993 - \$1,000,000]
To initiate a series of high-level Bellagio meetings on population and its relationship to the other dimensions of development aimed at convincing policymakers and donors of the cost-effectiveness of committing increased resources to satisfying the unmet demand for contraception.

Princeton University,
New Jersey
\$150,250
For a research project at its Office of Population Research on unmet need for family planning in Africa.

Foundation-administered project
\$500,000
Toward first-year costs.

Climate Institute,
Washington, D.C.
\$50,000
Toward the costs of its environmental refugee program.

Contraceptive Introduction
Projects
[1992 - \$2,325,000, in addition to remaining funds from prior year appropriations]
To promote field studies and operations research in developing countries as their family planning programs introduce new contraceptive methods. (Other grants under this appropriation are listed under the division's first guideline, Developing Technology for Fertility Regulation.)

Peking University,
Beijing, China
\$24,500
For cooperation by its Institute of Population Research with the Chinese State Family Planning Commission in operations research to demonstrate the advantages of an enhanced rural family planning system that integrates improved methods of contraception with better training of local family planning personnel.

\$32,500
To enable its Institute of Population Research to engage a consultant in connection with a project designed to demonstrate the advantages of an enhanced rural family planning system that integrates improved methods of contraception with better training of local family planning personnel.

State Family Planning
Commission,
Beijing, China
\$75,000
In support of operations research to demonstrate the advantages of an enhanced rural family planning system that integrates improved methods of contraception with better training of local family planning personnel.

University of Pennsylvania,
Philadelphia
\$101,610
To enable its Population Studies Center to provide technical assistance to the Chinese State Family Planning Commission as the latter undertakes a field experiment in family planning in rural China.

El Colégio de México,
Mexico City
\$61,900
In support of the doctoral program in population studies at its Center for Demographic and Urban Development.

Harvard University,
Cambridge, Massachusetts
\$100,000
For use by its Center for Population and Development Studies enabling George Zeidenstein to participate in projects concerning the mobilization of resources for population and development activities.

International Union for the
Scientific Study of Population,
Liege, Belgium
\$25,000
Toward the costs of a meeting on values and fertility change, held in Switzerland in February 1994.

Korea Institute for Health and
Social Affairs,
Seoul
\$60,000
In support of its 1993 seminar on the social and economic impact of below-replacement fertility in East and Southeast Asia.

Latin American Social Science
Research Council,
Buenos Aires, Argentina
\$60,000
Toward the costs of a conference on the demographic transition in Latin America and the Caribbean, organized by its regional collaborative program on population (PROLAP) and held in Mexico in March 1993.

Makerere University,
Kampala, Uganda
\$50,000
To strengthen its population research and training program.

National Academy of Sciences,
Washington, D.C.
\$100,000
Toward the costs of an October 1993 conference in New Delhi, India, at which representatives from the world's scientific academies formulated a consensus on how best to address world population and development issues.

Overseas Development Council,
Washington, D.C.
\$100,000
Toward the costs of its project to analyze the causes and consequences of rapid population growth.

Parliamentarians for Global
Action,
New York, New York
\$50,000
Toward the costs of a workshop on population growth, consumption, and the environment, held in Dhaka, Bangladesh, in December 1993.

Peking University,
Beijing, China
\$58,700
To enable five students from other Asian countries to attend the post-graduate program in population science at its Institute of Population Research.

Population Action International,
Washington, D.C.
\$125,000
For its program of research, analysis, and production and distribution of reports on population issues.

The Population Sciences in Sub-Saharan Africa
[1991 - \$600,000, in addition to remaining funds from prior year appropriations]
To continue to strengthen the capacity of African institutions and improve understanding of population trends in sub-Saharan Africa.

African Medical and Research
Foundation,
Nairobi, Kenya
\$32,860
To enable a member of its staff to continue advanced training at Johns Hopkins University.

Jimma Institute of Health
Sciences,
Ethiopia
\$118,640
Toward the costs of a community-based study to identify factors that influence infant survival differentials in four towns in southwest Ethiopia.

Mahidol University,
Bangkok, Thailand
\$7,160
To enable four African scholars to pursue master's degree studies at its Institute for Population and Social Research.

Makerere University,
Kampala, Uganda
\$30,650
For a consultative meeting on population training and research in eastern and southern Africa.

\$10,000
To enable its Department of Population Studies to engage a senior-level African from outside Uganda as visiting professor.

- Ministry of Health,
Accra, Ghana
\$100,000
Toward the costs of a project to be undertaken in a rural area of Ghana's Upper East region, under the auspices of the Navrongo Health Research Centre, to develop a model for national primary health care and family planning services (Joint allocation with Health Sciences, for a total of \$175,000)
- Tulane University,
New Orleans, Louisiana
\$10,810
For a project in collaboration with the University of Ghana concerning the extent of unmet need for contraception in Ghana.
- University of Kinshasa,
Zaire
\$54,960
For a study of how the findings from a 1990 survey of the interrelationships among employment, education, and fertility in urban Zaire have since been affected by the country's deteriorating economy and civil disturbances
- University of New Mexico,
Albuquerque
\$99,750
For a project, collaborative with Radio Tanzania and the Tanzanian Ministry of Health, to evaluate a radio soap opera about family planning and AIDS for its effects on listeners' knowledge, attitudes, and behavior
-
- Research on Evaluation of Family Planning Programs
[1989 \$500,000, in addition to remaining funds from prior year appropriations]
To identify, through case studies of family planning programs in selected developing countries, the key elements that policy personnel and program managers need to consider for strengthening national population programs
- University of North Carolina,
Chapel Hill
\$25,000
Toward the costs of collaborating with the Vietnamese National Committee for Population and Family Planning on family planning program evaluation activities in Vietnam.
- Foundation administered project
\$85,000
For personnel and publication costs
- \$32,000
Costs of a Foundation sponsored workshop, held in Chiang Mai, Thailand, to discuss the results of family planning evaluation projects
-
- Research on the Relationship between the Status of Women in Developing Countries and Fertility
[1991 \$300,000, in addition to remaining funds from prior appropriations]
To continue support for research on women's status and fertility in developing countries
- JSI Research & Training Institute, Inc.,
Boston, Massachusetts
\$24,260
Toward the costs of its project, collaborative with the Development Research Centre, Dhaka, Bangladesh, on ideational change and the advent of family planning in Bangladesh.
- University of Edinburgh,
Scotland
\$5,000
Toward the costs of a workshop being organized in collaboration with the Institute of Economic Growth, University of Delhi, India, on female education, women's autonomy, and fertility in South Asia.
-
- Research Support for Population Scientists Returning to Developing Countries
[1992 \$500,000, in addition to funds from prior year appropriations]
(Other grants from this appropriation are listed under the division's first guideline, Developing Technology for Fertility Regulation.)
- Banaras Hindu University,
Varanasi, India
\$24,880
For a study of the status of women and fertility in Eastern Uttar Pradesh
- Shanghai Academy of Social Sciences,
China
\$25,000
For a study of how family planning policies and socioeconomic changes have affected fertility among minority groups in China.
- Universidad del Pacifico,
Lima, Peru
\$24,900
For a study of how a population education program instituted in Peruvian schools has affected young people's attitudes and knowledge about contraceptives and sexually transmitted diseases
- University of Dar es Salaam,
Tanzania
\$28,700
For a study of social and cultural norms and beliefs about family planning among rural residents in Tanzania.
- University of Ibadan,
Nigeria
\$24,320
For a study of sexuality and sexual behavior among adolescents in Lagos State, Nigeria.
-
- United Nations Economic Commission for Latin America,
Santiago, Chile
\$2,500
For use by its Latin American Demographic Center in publishing a research report on women's migration and the labor market in Santiago
-
- United Nations Population and Development Conference
[1993 \$1,000,000]
To provide participants in the 1994 United Nations International Conference on Population and Development with up to date and reliable information about the current demographic situation, future projections, and opportunities
- Lawrence A Adeokun,
Makerere University,
Kampala, Uganda
\$2,459
To enable him to attend a meeting organized by the UN Population Fund and UNESCO on socio-cultural factors affecting demographic behavior
- Deutsche Stiftung Weltbevölkerung,
Hanover, Germany
\$46,340
Toward the costs of providing information to German policymakers and the public on the importance of global population issues and the 1994 UN Conference on Population and Development in Cairo, Egypt
- Earth Pledge Foundation,
New York, New York
\$50,000
Toward the costs of producing and distributing The Earth Tunes, which has been designated the newspaper of record for the 1994 International Conference on Population and Development, held in Cairo, Egypt.
- Environment and Population Centre,
Lusaka, Zambia
\$25,000
Toward the costs of a workshop on women's perspectives on population and development, to be held in Lusaka in preparation for the 1994 Conference in Cairo, Egypt
- Equilibres et Populations,
Paris, France
\$25,000
Toward the costs of a symposium on world population issues held in December 1993 in preparation for the 1994 UN Conference on Population and Development in Cairo, Egypt
- International Food Policy Research Institute,
Washington, D C
\$25,160
Toward the costs of a meeting organized in collaboration with the UN Population Fund to take stock of current projections of food and population trends over the next 20 years in preparation for the 1994 UN Population and Development Conference, in Cairo, Egypt (Joint allocation with Agricultural Sciences, for a total of \$50,160)

International Union for the Scientific Study of Population, Liege, Belgium
\$20,000

Toward the costs of a meeting to consider how it can best contribute to the success of the 1994 Conference in Cairo, Egypt.

George D Moffett III, Washington, D C
\$50,000

Toward the costs of producing a book to provide information to delegates and help set the agenda for the 1994 International Conference on Population and Development, held in Cairo, Egypt.

Parliamentarians for Global Action, New York, New York
\$50,000

Toward the cost of a workshop held in conjunction with a meeting of the preparatory committee of the 1994 Conference in Cairo, Egypt.

Population Communications International, New York, New York
\$50,000

Toward the costs of serving as the secretariat for the NGO Planning Committee, as the latter prepared for the International Conference on Population and Development held in Cairo, Egypt, in 1994

The Population Council, New York, New York
\$89,840

Toward the costs of its program of family, gender, and population policy debates held in preparation for the 1994 International Conference on Population and Development, to be held in Cairo, Egypt.

The Population Institute, Washington, D C
\$20,000

Toward the costs of a meeting for representatives of nongovernmental organizations held in the Dominican Republic preparatory to the 1994 International Conference on Population and Development, in Cairo, Egypt.

Population Resource Center, Princeton, New Jersey
\$40,000

Toward the costs of preparing summary materials on the topic areas to be addressed at the 1994 Conference in Cairo, Egypt, for distribution to international and domestic audiences

University of Cambridge, England
\$33,800

In support of a conference planned by Pembroke College on migration, fertility, and national identity, held at the Bellagio Study and Conference Center, June 28 July 2, 1993

University of São Paulo, Brazil
\$25,000

For use by its School of Communications and Fine Arts toward the costs of a planning project with two other Brazilian universities and the University of Texas at Austin on the impact of television on demographic change in Brazil.

World Resources Institute, Washington, D C
\$125,000

Toward the costs of revisiting economic projections made in the 1960s about India to gain a better understanding of the relationships between population growth, poverty, and environmental decline

Foundation administered project
\$106,000

For the costs of engaging a consultant to document how policymakers and other influential groups in industrialized and developing countries view the links between rapid population growth and development and the unmet need for contraception in developing countries

FAMILY AND COMMUNITY
BASED HEALTH INITIATIVES

Action Research to Improve Reproductive Health Service Delivery
[1993] \$800,000

To support action research in selected developing countries to identify sustainable models for expanding access in and improve the quality of reproductive health services, especially for adolescents (Joint appropriation with Health Sciences, for a total of \$1,100,000)

The Center for Reproductive Law and Policy, New York, New York
\$60,000

In support of its international program that will provide information on reproductive health rights to lawyers and advocacy groups

Commonwealth Regional Health Community Secretariat for East, Central, and Southern Africa, Arusha, Tanzania
[1993] \$225,000, in addition to

remaining funds from prior year appropriations
To encourage greater integration of reproductive health and population issues in the health and development policies of African countries (Joint appropriation with Health Sciences, for a total of \$400,000)

Family Care International, New York, New York
\$30,000

For the development of a reproductive health training curriculum and a project in collaboration with the Ministry of Health of Ghana to improve the quality of its maternal health and family planning services (Joint grant with Health Sciences, for a total of \$50,000)

HIV in the Developing World [1992] \$750,000, in addition to remaining funds from prior year appropriations

To help developing countries improve their national research and private sector capabilities for controlling the spread of human immunodeficiency virus (HIV) infection. (Joint appropriation with Health Sciences, for a total of \$1,500,000)

AIDS Counselling Trust, Harare, Zimbabwe
\$5,000

Toward the costs of the third conference of the Southern African Network of AIDS Service Organisations (Joint allocation with Health Sciences, for a total of \$10,000)

AIDS Society of Asia & the Pacific, Randwick, New South Wales, Australia
\$12,500

Toward the costs of the first International Congress on AIDS in Asia and the Pacific, which was held in New Delhi, India, November 8-12, 1992 (Joint allocation with Health Sciences, for a total of \$25,000)

Australian National University, Canberra
\$57,400

For use by its Health Transition Centre for support of the West African Research Group on Sexual Networking (Joint allocation with Health Sciences, for a total of \$74,800)

Centro de Estudo e Pesquisa em Saude Coletiva, Rio de Janeiro, Brazil
\$50,000

Toward the costs of developing an international working group on sexual behavior research. (Joint allocation with Health Sciences, for a total of \$100,000)

Chiang Mai University, Thailand
\$20,295

For the pilot phase of the follow up study of the Thai Military Male Health Research Project. (Joint allocation with Health Sciences, for a total of \$40,590)

Chulalongkorn University,
Bangkok, Thailand
\$30,525
For a study of the social influences on male sexual behavior in Thailand, to be undertaken at its Institute of Population Studies in collaboration with the University of Michigan (Joint allocation with Health Sciences, for a total of \$61,050)

Commonwealth Youth
Programme Africa Centre,
Lusaka, Zambia
\$5,000
For the publication and dissemination of the proceedings of an African regional conference for young people with HIV/AIDS (Joint allocation with Health Sciences, for a total of \$10,000)

Institute of Tropical Medicine,
Antwerp, Belgium
\$50,000
To provide technical assistance for an intervention study of sexually transmitted diseases and HIV infection among female prostitutes in Abidjan, being conducted by the Ministry of Health, Ivory Coast. (Joint allocation with Health Sciences, for a total of \$100,000)

International Family Health,
London, England
\$57,500
For coordination of a project supporting the development of a potential new effort, the HIV/AIDS NGO Support Programme, aimed at increasing international donor assistance to developing country nongovernmental organizations working in the field. (Joint allocation with Health Sciences, for a total of \$115,000)

National Council for
International Health,
Washington, D C
\$5,000
Toward the costs of a workshop on building capacity within indigenous groups responding to the HIV/AIDS pandemic. (Joint allocation with Health Sciences, for a total of \$10,000)

National Institute of Public
Health,
Cuernavaca, Mexico
\$65,887
In continued support of a pilot study in Mexico—part of a multi-country intervention trial—regarding commercial sex workers and HIV transmission (Joint allocation with Health Sciences, for a total of \$131,775) (With debt swap)

Network of AIDS Researchers of
Eastern and Southern Africa
(NARESA),
Nairobi, Kenya
\$32,750
In support of its regional AIDS activities (Joint allocation with Health Sciences, for a total of \$65,500)

University of Dar es Salaam,
Tanzania
\$91,230
For use by its Muhimbili Medical Centre in expanding an HIV intervention study among women attending selected family planning clinics in Dar es Salaam. (Joint allocation with Health Sciences, for a total of \$182,460)

Foundation administered projects
\$15,000
For administrative expenses related to improving non-governmental responses to HIV/AIDS in developing countries (Joint allocation with Health Sciences, for a total of \$30,000)

\$100,000
For the costs associated with planning for a Foundation prize for the development of rapid, reliable, and inexpensive diagnostic tests of gonorrhea and chlamydia, suitable for use in resource-poor settings (Joint allocation with Health Sciences, for a total of \$200,000)

INCLIN, Inc.,
Philadelphia, Pennsylvania
\$22,120
For the activities of its reproductive health working group

\$17,600
Toward the costs of a workshop on reproductive tract infections in women, held by its reproductive health working group in Chiang Mai, Thailand.

International Center for Research
on Women,
Washington, D C
\$19,940
For the development of collaborative research projects on adolescent sexuality and fertility with non-governmental organizations in Maharashtra, India. (Joint grant with Health Sciences, for a total of \$39,880)

International Planned Parenthood
Federation,
London, England
\$50,000
Toward the costs of initial planning activities for a research project on abortion and post-abortion family planning in Africa.

Kenya Medical Women's
Association,
Nairobi
\$12,500
Toward the costs of a regional congress held in Nairobi concerning the health of women and safe motherhood. (Joint grant with Health Sciences, for a total of \$25,000)

Makerere University,
Kampala, Uganda
\$12,500
To enable African delegates from outside of Uganda to attend the Seventh International Women and Health Meeting, held in Kampala, September 1993 (Joint grant with Health Sciences, for a total of \$25,000)

Pathfinder International,
Watertown, Massachusetts
\$90,000
For projects related to the incidence of unsafe abortion in Addis Ababa and Nairobi, to be undertaken in collaboration with Marie Stopes Ethiopia and Kenyatta National Hospital.

\$9,900
For preparation of a report on its past work and experience in developing countries in the field of adolescent reproductive health.

Population Council, New York,
New York
[1993 - \$450,000]
Toward the work of its Robert H Ebert Program on Critical Issues in Reproductive Health and Population in defining and testing methods to improve the quality of reproductive health care and disseminating the results widely (Joint appropriation with Health Sciences, for a total of \$500,000.)

Public Health Schools
Without Walls
[1993 - \$200,000, in addition to remaining funds from prior year appropriations]
To continue the testing in Zimbabwe of a field-based graduate-degree training course for senior public health officers, and to support the start-up of a similar course in Uganda. (Joint appropriation with Health Sciences, for a total of \$650,000)

Makerere University,
Kampala, Uganda
\$26,750
For a needs assessment study and a curriculum development workshop to design a Master of Public Health program under the auspices of the Public Health Schools Without Walls initiative (Joint allocation with Health Sciences, for a total of \$53,500)

Tulane University,
New Orleans, Louisiana
\$14,925
For use by its Medical Center to provide technical assistance to the University of Zimbabwe for the Public Health Schools Without Walls initiative (Joint allocation with Health Sciences, for a total of \$29,850)

University of Zimbabwe,
Harare
\$15,000
For expenses related to advisory site visits to work with the University of Zimbabwe and the Ministry of Health in the design of its curriculum for the Public Health Schools Without Walls initiative (Joint allocation with Health Sciences, for a total of \$30,000)

Foundation-administered project
\$20,000
For development of a public health network and expenses of the advisory committee (Joint allocation with Health Sciences, for a total of \$60,000)

University of California, Davis
\$960
In support of a collaborative study with the University of Malawi and Ahmadu Bello University, Nigeria, on cultural and behavioral risk factors for sexually transmitted diseases among sub-Saharan African women (Joint grant with Health Sciences, for a total of \$1,920)

Women for Women's Health [1993 - \$600,000, in addition to remaining funds from prior year appropriations]
To help Malawi and Uganda develop the capacity for training increased numbers of nurse-midwives and upgrading their skills and status as a way of bringing about sustained reduction in maternal mortality and morbidity (Joint appropriation with Health Sciences, for a total of \$1,300,000)

Case Western Reserve University, Cleveland, Ohio
\$80,000
To continue funding of the "Women for Women's Health Initiative" in Uganda. (Joint allocation with Health Sciences, for a total of \$160,000)

\$182,925
For final funding of the "Women for Women's Health Initiative" in Uganda. (Joint allocation with Health Sciences, for a total of \$365,850)

Makerere University, Kampala, Uganda
\$49,950
For start-up costs of the BSc degree in Nursing Program for the "Women for Women's Health Initiative" (Joint allocation with Health Sciences, for a total of \$99,900)

University of Pennsylvania, Philadelphia
\$119,000
To continue funding of the "Women for Women's Health Initiative" in Malawi. (Joint allocation with Health Sciences, for a total of \$238,000)

World Health Organization, Geneva, Switzerland
\$17,500
Toward the costs of a meeting organized by its Maternal Health and Safe Motherhood Program to prepare a "mother-baby package" designed to improve services during pregnancy and delivery in countries where the need is greatest. (Joint grant with Health Sciences, for a total of \$35,000)

Foundation-administered project
\$3,127
For the costs of tabulating the extent of unmet need and demand for contraception among young women in developing countries

FELLOWSHIPS

Biotechnology Career Fellowships [1993 - \$300,000, in addition to remaining funds from prior year appropriations]
To assist excellent young scientists based in the developing world to become leaders in the development and application of biotechnology that offers promise for improving the living conditions of poor people (Jointly funded with Agricultural Sciences and Health Sciences, for a total of \$1,140,000)

African Initiatives Grants

The African initiative program supports a small number of science-based development projects in Africa that cross the traditional boundaries of the agriculture, health, and population sciences, and global environmental concerns

African Centre for Communications and Development (ACCD), Nairobi, Kenya
\$89,900
Toward the costs of the production and evaluation of a pilot series of television programs on the problems of African teenagers

African Dissertation Internship Awards [1993 - \$1,000,000, in addition to remaining funds from prior year appropriations]
To enable outstanding African graduate students enrolled in U.S. and Canadian universities to undertake supervised doctoral research in Africa, as a means of increasing the relevance of their work to a future career in that region

Mutassim Abdelrahman, doctoral candidate from Sudan, award administered by Washington State University, Pullman
\$20,000
To enable him to conduct dissertation research at the University of Khartoum, Sudan.
Research Title "Mineral Deficiencies in Grazing Ruminants in the African Sahel"

African Development Foundation, Washington, D C
\$45,000
Toward the costs of a workshop on participatory methodology and proposal writing for Francophone African Researchers

Beatrice Khamisa Baya, doctoral candidate from Sudan, award administered by the University of Toronto, Canada
\$28,570
To enable her to conduct dissertation research at the New Sudan Council of Churches, Nairobi, Kenya.
Research Title "Coping with Crisis A Case Study of Sudanese Refugees in Kakuma, Kenya."

Shirley Brooks, doctoral candidate from South Africa, award administered by Queen's University, Kingston, Ontario, Canada
\$21,290
To enable her to conduct dissertation research at the University of Natal, Pietermaritzburg, South Africa.
Research Title "Conservation, Development, and Resistance to Agricultural Betterment in Natal, 1940-1990"

Awa Busia, doctoral candidate from the Ivory Coast, award administered by Cornell University, Ithaca, New York
\$26,990
To enable her to conduct dissertation research at the Ecole Nationale Supérieure des Travaux Publics, Ivory Coast.
Research Title "Preferential Flow Use of the Electromagnetic Induction Method to Locate Layers and Detect Water and Solute Movement in Soils"

Arlindo Chilundo, doctoral candidate from Mozambique, award administered by the University of Minnesota, Minneapolis
\$17,450
To enable him to conduct dissertation research at Eduardo Mondlane University, Maputo, Mozambique
Research Title "Economic and Social Impact of Railroads and Road Transport in the Northern Mozambican Province of Nampula."

- Clark University,
Worcester, Massachusetts
\$3,250
To enable Professor Josephine Msangi, supervisor of intern Francis Wegulo at Egerton University, Njoro, Kenya, to attend Mr Wegulo's dissertation defense at Clark University
- Clemson University,
South Carolina
\$4,035
To enable Dr Virgil Quisenberry, advisor of intern Owen Mandiringana, to confer with him during his dissertation research in Zimbabwe
- Ecole Nationale Supérieure des Travaux Publics,
Yamoussoukro, Ivory Coast
\$2,500
For administrative costs associated with Awa Busia's dissertation research.
- Egerton University,
Njoro, Kenya
\$2,500
For administrative costs associated with Ruphuna Okeyo's dissertation research.
- \$2,500
For administrative costs associated with Juma Leopold Ogallo's dissertation research.
- Frank Eha, *doctoral candidate from Tanzania, award administered by Michigan State University, East Lansing*
\$27,575
To enable him to conduct dissertation research at the Sokoune University of Agriculture, Morogoro, Tanzania. Research Title "A Study to Ascertain the Genetic Controls of Cookability in Dry Seeds of the Common Bean."
- Hailemichael Gebreselassie, *doctoral candidate from Ethiopia, award administered by McGill University, Montreal, Canada*
\$25,570
To enable him to conduct dissertation research at the National Research Institute of Health, Addis Ababa, Ethiopia. Research Title "The Effect of Iron Supplementation on Malaria Infection in Young Ethiopian School Children."
- Indiana University,
Bloomington
\$3,315
To enable Dr Patrick Ahia, supervisor of intern Stephen Ndegwa at the University of Nairobi, Kenya, to attend Mr Ndegwa's dissertation defense at Indiana University
- \$6,400
To enable Dr C.R.D. Halisi, advisor of intern Stephen Ndegwa, to confer with him during his dissertation research in Kenya.
- International Institute for Tropical Agriculture,
Ibadan, Nigeria
\$2,500
For administrative costs associated with Denis Kyetere's dissertation research.
- Iowa State University,
Ames
\$4,535
To enable Dr Paul Brackelsberg, advisor of intern Jomo Johns, to confer with him during his dissertation research in Ethiopia.
- Johns Hopkins University,
Baltimore, Maryland
\$4,125
To enable Dr Bernard Guyer, advisor of intern Samuel Forjuoh, to confer with him during his dissertation research in Ghana.
- Ibrahim Jumare, *doctoral candidate from Nigeria, award administered by York University, Toronto, Canada*
\$22,290
To enable him to conduct dissertation research at Usmanu Danfodiyo University, Sokoto, Nigeria. Research Title "Land Tenure in the Sokoto Sultanate of Nigeria."
- Abdullahi Kalif, *doctoral candidate from Somalia, award administered by Louisiana State University, Baton Rouge*
\$27,290
Research Title "Use of Polymerase Chain Reaction for Mycoplasma mycoides sub sp mycoides Small Colony Type DNA from Clinical Samples in Africa."
- Kansas State University,
Manhattan
\$5,880
To enable Dr Larry Clafun, advisor of intern Chagama John Kedera, to confer with him during his dissertation research in Ethiopia.
- Chagama John Kedera, *doctoral candidate from Kenya, award administered by Kansas State University, Manhattan*
\$27,930
To enable him to conduct dissertation research at the University of Nairobi, Kenya. Research Title "Tracking and Identification of Genetic Diversity within Populations of Fusarium Section Liseola from Corn"
- Kenya Agricultural Research Institute,
Nairobi
\$2,500
For administrative costs associated with Abdullahi Kalif's dissertation research.
- Kenya Forestry Research Institute,
Nairobi
\$2,500
For administrative costs associated with Callistus Ogol's dissertation research.
- Peter Kiplagat, *doctoral candidate from Kenya, award administered by Yale University, New Haven, Connecticut*
\$28,570
To enable him to conduct dissertation research at the University of Nairobi, Kenya. Research Title "Dynamics of Regional Integration in the New World Order- Legal Aspects of Integration Processes in Developing Countries with Particular Reference to the Preferential Trade Area for Eastern and Southern Africa."
- Richard Kisiara, *doctoral candidate from Kenya, award administered by Washington University, St. Louis, Missouri*
\$28,570
To enable him to conduct dissertation research at the University of Nairobi, Kenya. Research Title "Labour Exchange in a Polyethnic Agricultural Resettlement in Kenya."
- Denis Kyetere, *doctoral candidate from Uganda, award administered by Ohio State University, Columbus*
\$18,050
To enable him to conduct dissertation research at the Ministry of Agriculture, Animal Industry, and Fisheries, Namulonge Research Station, Kampala, Uganda. Research Title "Determination of the Genetic Basis of Resistance to Maize Streak Virus Disease Using Molecular Markers"
- Makerere University,
Kampala, Uganda
\$2,500
For administrative costs associated with Joseph Obusu-Ansah's dissertation research.
- Owen Mandiringana, *doctoral candidate from Zimbabwe, award administered by Clemson University, South Carolina*
\$5,000
To enable him to conduct dissertation research at the Chemistry and Soil Research Institute, Ministry of Lands, Agriculture, and Rural Resettlement, Harare, Zimbabwe. Research Topic "Relating Water and Solute Movement in Soils to Their Basic Physical and Chemical Characteristics"
- Francis Martinson, *doctoral candidate from Ghana, award administered by University of North Carolina, Chapel Hill*
\$20,000
To enable him to conduct dissertation research at the Ghana Ministry of Health, Accra. Research Topic "Risk Factors for Horizontal Transmission of Hepatitis B Virus in Ghana."
- McGill University,
Montreal, Canada
\$1,710
To enable Professor Barnabas Mutaru, supervisor of intern Ephraim Mukisira at the Kenya Agricultural Research Institute, to attend Mr Mukisira's dissertation defense at McGill University
- \$3,710
To enable Dr John Schuille, co-advisor of intern Maria Mayoya, to confer with her during her dissertation research in Burundi.

- \$20,000
For use by its Department of Agricultural Economics in recognition of its contribution to the education of African doctoral students
- \$3,320
To enable Dr Mark Conley, advisor of intern Albert Natsa, to confer with him during his dissertation research in Zimbabwe
- \$3,725
To enable Professor O L E Mbatia, supervisor of intern Lydia Kimenye at the University of Nairobi, Kenya, to attend Ms. Kimenye's dissertation defense at Michigan State University
- \$3,968
To enable Dr Joe Rutche, advisor of intern Cornel Rweyemamu, to confer with him during his dissertation research in Tanzania.
- Ministry of Agriculture, Animal Industry, and Fisheries, Kampala, Uganda
\$2,500
For administrative costs associated with Denis Kyetere's dissertation research.
- Ministry of Economy, Finance, and Planning, Dakar, Senegal
\$2,500
For administrative costs associated with Pierre Ngom's dissertation research.
- Ministry of Health, Harare, Zimbabwe
\$2,500
For administrative costs associated with Susan Mutambu's dissertation research.
- Ministry of Health, Konongo and Agogo, Ghana
\$2,500
For administrative costs associated with Francis Martinson's dissertation research
- Ministry of Higher Education, Computer and Scientific Research, Yaounde, Cameroon
\$2,500
For use by its Institute for Agronomic Research for administrative costs associated with Jupiter Ndjeunga's dissertation research.
- Ministry of Lands, Agriculture, and Rural Resettlement, Harare, Zimbabwe
\$2,500
For administrative costs associated with Owen Mandiringana's dissertation research.
- Eduardo Mondlane University, Maputo, Mozambique
\$2,500
For administrative costs associated with Arlindo Chubundo's dissertation research.
- Lewis Mtonga, doctoral candidate from Malawi, award administered by Queen's University, Kingston, Ontario, Canada
\$18,960
To enable him to conduct dissertation research at the University of Malawi, Zomba
Research Title: "Fishing, Ecology, and Conservation in Malawi."
- Susan Mutambu, doctoral candidate from Zimbabwe, award administered by University of Hawaii Foundation, Honolulu
\$28,570
To enable her to conduct dissertation research at Blair Research Laboratory, Zimbabwe Ministry of Health, Harare
Research Title "Plasmodium Falciparum Sequestration in the Placenta as a Risk Factor for Intrauterine Transmission of Human Immunodeficiency Virus in Zimbabwean Pregnant Women"
- National Research Institute of Health, Addis Ababa, Ethiopia
\$2,500
For administrative costs associated with Hailemichael Gebreselassie's dissertation research.
- Embola Ndi, doctoral candidate from Cameroon, award administered by Washington State University, Pullman
\$18,995
To enable him to conduct dissertation research at the International Institute for Tropical Agriculture, Ibadan, Nigeria.
Research Title: "Relating Physicochemical and Biochemical Properties to End-Use Quality"
- Jupiter Ndjeunga, doctoral candidate from Cameroon, award administered by the University of Illinois, Urbana-Champaign
\$33,500
To enable him to conduct dissertation research at the Ministry of Higher Education and Scientific Research, Yaounde, Cameroon.
Research Title "Financial Dualism in West Africa. Contractual Arrangements between Borrowers and Lenders"
- New Sudan Council of Churches, Nairobi, Kenya
\$2,500
For administrative costs associated with Beatrice Khamisa Baya's dissertation research.
- Pierre Ngom, doctoral candidate from Senegal, award administered by the University of Pennsylvania, Philadelphia
\$12,370
To enable him to conduct dissertation research at the Ministry of Economy, Finance, and Planning, Dakar, Senegal.
Research Title "The Role of Women's Informal Communication in the Diffusion of Information about Family Planning: Some Evidence from West Africa."
- Juma Leopold Ogallo, doctoral candidate from Kenya, award administered by the University of Arizona, Tucson
\$19,640
To enable him to conduct his dissertation research at Egerton University, Njoro, Kenya.
Research Title "Biocontrol of Rootknot Nematodes on Pyrethrum by Induction of Resistance with Non Virulent Nematode Species"
- Callistus Ogol, doctoral candidate from Kenya, award administered by the University of Alberta, Edmonton, Canada
\$24,290
To enable him to conduct dissertation research at the Kenya Forestry Research Institute, Nairobi.
Research Title "Agroforestry for Kenya. Pest Impact and Biocontrol in a Tree Legume/Maize Intercrop"
- Ruphina Okeyo, doctoral candidate from Kenya, award administered by Virginia Polytechnic Institute and State University, Blacksburg
\$24,830
To enable her to conduct dissertation research at Egerton University, Njoro, Kenya.
Research Title "The Relationship between Seasonal Fuelwood Availability, Women's Time Allocation, and Household Food Consumption"
- Joseph Owusu-Ansah, doctoral candidate from Ghana, award administered by the Ohio State University Research Foundation
\$20,000
To enable him to conduct dissertation research at Makerere University, Kampala, Uganda.
Research Title "Making the Invisible Visible. The Impact of Extension Agent Attitudes Toward Farmers on Extension Projects and Policy"
- Queen's University, Kingston, Canada
\$6,724
To enable Dr Jonathan Crush, advisor of intern Shirley Brooks, to confer with her during her dissertation research in South Africa
- Cornel Rweyemamu, doctoral candidate from Tanzania, award administered by Michigan State University, East Lansing
\$28,710
To enable him to conduct dissertation research at the Sokoine University of Agriculture, Morogoro, Tanzania
Research Title "A Systems Assessment of Phosphate Rock for Use in Phaseolus Vulgaris Production in Tanzania."
- Kole Shottuma, doctoral candidate from Nigeria, award administered by the University of Toronto, Ontario, Canada
\$25,070
To enable him to conduct dissertation research at the University of Maiduguri, Nigeria
Research Title "Participatory Development in Rural Communities in Nigeria: A Study of the Better Life Program for Rural Women Movement and North East Arid Zone Development Program."

- Sokome University of Agriculture, Morogoro, Tanzania \$2,500
For administrative costs associated with Cornel Rweyemamu's dissertation research.
- \$2,500
For administrative costs associated with Frank Eha's dissertation research.
- Stanford University, California \$6,515
To enable Dr Hans Weiler, advisor of intern Margaret Kilo, to confer with her during her dissertation research in Cameroon.
- Temple University, Philadelphia, Pennsylvania \$4,080
To enable Dr Ahmed Karadawi, supervisor of intern Nahid Suleiman at the Office of the Commissioner for Refugees, Ministry for Rehabilitation, Refugee Affairs, and Relief, Khartoum, Sudan, to attend her dissertation defense at Temple University
- University of British Columbia, Vancouver, Canada \$2,185
To enable Dr Malcolm Taut, advisor of intern John Baah, to confer with him during his dissertation research in Ghana.
- University of California, Los Angeles \$5,380
To enable Professor Daniel Offiong, supervisor of intern David Iyam at the University of Calabar, Nigeria, to attend Mr Iyam's dissertation defense at the University of California, Los Angeles
- University of Florida, Gainesville \$40,000
Toward the costs of a planning committee to identify opportunities for collaboration among U.S. universities, Consultative Groups on International Agricultural Research (CGLAR) centers, and the National Agricultural Research Service (NARS) in an effort to increase agricultural productivity in a sustainable manner for the developing world. (Joint allocation with Agricultural Sciences, for a total of \$65,000)
- University of Hawaii, Honolulu \$7,940
To enable Dr Robert Desowitz, advisor of intern Susan Mutambu, to confer with her during her dissertation research in Zimbabwe
- University of Illinois, Urbana-Champaign \$4,800
To enable Dr Carl Nelson, advisor of intern Jupiter Ndjunga, to confer with him during his dissertation research in Cameroon.
- \$5,300
To enable Dr John van Es, advisor of intern Flavianus Magayane, to confer with him during his dissertation research in Tanzania.
- University of Khartoum, Sudan \$2,500
For administrative costs associated with Mutassum Abdelrahman's dissertation research.
- University of Maiduguri, Nigeria \$2,500
For administrative costs associated with Kole Shettima's dissertation research.
- University of Malawi, Zomba \$2,500
For administrative costs associated with Lewis Mtonga's dissertation research.
- University of Minnesota, Minneapolis \$4,500
To enable Dr Allen Isaacman, advisor of intern Arlindo Chilundo, to confer with him during his dissertation research at Eduardo Mondlane University, Maputo, Mozambique
- University of Nairobi, Kenya \$2,500
For administrative costs associated with Chagema John Kedera's dissertation research.
- \$2,500
For administrative costs associated with Richard Kisiara's dissertation research.
- \$2,500
For administrative costs associated with Peter Kiplagat's dissertation research.
- University of Natal, Pietermaritzburg, South Africa \$2,500
For administrative costs associated with Shirley Brooks' dissertation research.
- University of North Carolina Chapel Hill \$2,870
To enable Dr Amy Tsui, advisor of intern Joseph DeGraft-Johnson, to confer with him during his dissertation research in Ghana.
- University of Toronto, Canada \$3,840
To enable Dr Jonathan Barker, advisor of intern Kole Shettima, to confer with him during his dissertation research in Nigeria.
- University of Waterloo, Canada \$5,800
To enable Dr CH Fernando, advisor of intern Ngonidzashe Moyo, to confer with him during his dissertation research in Zimbabwe
- University of Zimbabwe, Harare \$2,500
For administrative costs associated with Godfrey Woelk's dissertation research
- Usmanu Danfodiyo University, Sokoto, Nigeria \$2,500
For administrative costs associated with Ibrahim Junare's dissertation research.
- Virginia Polytechnic Institute and State University, Blacksburg \$5,325
To enable Dr Marilyn Prehm, advisor of intern Ruphina Okeyo, to confer with her during her dissertation research in Kenya.
- Godfrey Woelk, doctoral candidate from Zimbabwe, award administered by the University of Washington, Pullman \$16,035
To enable him to conduct dissertation research at the University of Zimbabwe, Harare
Research Title "The Association of Birth Weight and Blood Pressure among Children and Their Parents in Harare City, Zimbabwe"
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- African Forum for Children's Literacy in Science and Technology [1993] - \$500,000, in addition to remaining funds from prior year appropriations]
To generate popular understanding in Africa among children and young adults of the principles and applications of science and technology
- Foundation for Education, Windhoek, Namibia \$75,000
For its project to provide mathematics kits in rural areas of Namibia.
- Handspring Trust for Puppetry in Education, Johannesburg, South Africa \$36,000
Toward the costs of a pilot television project using puppetry to teach science in primary schools in South Africa.
- La Mansaarno Kpee, Accra, Ghana \$56,600
Toward the costs of a nongovernmental organization's project for teaching hands-on practical science in the schools under its jurisdiction.
- Ministry of Education of Zanzibar, Government of Tanzania \$77,000
Toward the costs of the Zanzibar science camp project.
- Paper Making Education Trust, Blantyre, Malawi \$70,000
Toward the costs of a project on paper recycling for primary schools and local community groups in Malawi

Sierra Leone Home Economics Association,
Freetown
\$75,000

Toward the costs of its science and technology project for the country's out-of-school youth.

University of Cape Coast,
Ghana
\$51,800

Toward the costs of a project, "Science and Technology in Action in Ghana."

University of Malawi,
Zomba
\$53,270

For use by its Chancellor College for a project to improve scientific reasoning skills in Malawian pupils.

University of Zimbabwe,
Harare
\$76,900

For its project on children's scientific and mathematical problem-solving strategies and teacher support models.

Foundation-administered project
\$100,000
Program support costs.

Boston University,
Massachusetts
\$20,000

Toward the costs of a conference, "African Farmers and their Environment in Long-Term Perspective," to be held in The Netherlands, winter of 1994-1995.

Clark University,
Worcester, Massachusetts
\$2,390

Toward the costs of the preparation of an annotated bibliography of environmental publications from African organizations.

Council for the Development of Social Science in Africa (CODESRIA)
\$150,000

Toward the costs of the Reflections on Development fellowship program. (Joint grant with Special International Initiatives, for a total of \$450,000.)

DataCenter,
Oakland, California
\$4,500

Toward the costs of its Third World Resources Project's Guide to Africa.

Female Participation in African Education

[1993 - \$1,135,000, in addition to remaining funds from prior year appropriations]

To improve understanding of sex differences in school participation in sub-Saharan Africa and help African countries design and test policies to close the gender gap in attendance and educational performance.

Michael Camerini, Inc.,
New York, New York
\$500,000

Toward the production costs of a documentary film on girls' education in Africa.

Forum for African Women Educationalists,
Nairobi, Kenya
\$550,000

Toward general support.

The International Collaborative for Science Education and the Environment, Inc.,
Cambridge, Massachusetts
\$20,000

Toward the costs of a project to develop a video methodology to help teachers and teacher trainers improve the opportunities for girls to learn in Kenya and Tanzania.

Mazingira Institute,
Nairobi, Kenya
\$110,000

For a project on science and mathematics in girls' and women's lives.

Planet 21,
London, England
\$3,000

Toward the costs of distributing to African educators an issue of its publication "People and the Planet," devoted to a report on the persistently poor rate of school participation by girls in many societies.

Shirley Sebakwane, University of Witwatersrand,
Johannesburg, South Africa
\$1,550

To enable her to present a paper at a Massachusetts Institute of Technology conference, "Black Women in the Academy: Defending our Name 1894-1994," held January 13-15, 1994.

United Nations,
New York, New York
\$50,000

Toward the costs of the Fourth World Conference on Women to be held in Beijing in September 1995. (Joint grant with Special Interest and Explorations, for a total of \$200,000.)

The World Bank,
Washington, D.C.
\$50,000

For use by its Economic Development Institute toward the costs of a series of seminars on girls' education in the Sahel.

Foundation-administered projects
\$3,000

Toward legal costs associated with setting up the Forum for African Women Educationalists as a non-governmental organization in Kenya.

\$40,000

For costs associated with the April 1993 meeting of the executive committee of the Forum for African Women Educationalists, held in Harare, Zimbabwe.

\$15,000

Toward the costs of a meeting of the Donors to African Education Working Group on Female Participation, held in Paris, France, October 1993.

\$150,000

Program support costs.

RE-ENTRY SUPPORT FOR AFRICAN SCHOLARS PURSUING EDUCATION RESEARCH

Mmantsetsa Marope, University of Botswana,
Gaborone
\$25,000

To enable her to conduct research on the gender gap in mathematics achievement at the junior secondary school level.

Lawrence Mukuka, University of Zambia,
Lusaka
\$20,990

To enable him to conduct a study on the relationship between rural home environment and female school achievement.

Obafemi Omololu, University of Ibadan,
Nigeria
\$13,700

To enable him to conduct research on school participation and sexual behavior among Nigerian female adolescents.

Shirley Sebakwane, University of the Witwatersrand,
Johannesburg, South Africa
\$14,380

To enable her to conduct research on male and female teachers in Lebowa secondary schools and methods of promoting equal opportunity in the school workplace.

University of Botswana,
Gaborone
\$2,500

For administrative costs associated with the re-entry grant to Mmantsetsa Marope.

University of Ibadan,
Nigeria
\$2,500

For administrative costs associated with the re-entry grant to Obafemi Omololu.

University of the Witwatersrand,
Johannesburg, South Africa
\$2,500

For administrative costs associated with the re-entry grant to Shirley Sebakwane.

University of Zambia Lusaka
\$2,500
For administrative costs associated with the re entry grant to Lawrence Mukuka.

Harvard University,
Cambridge, Massachusetts
\$15,000
Toward the costs of a project to obtain improved basic education data in developing countries

International Development
Research Centre (IDRC),
Ottawa, Canada
\$200,000
Toward the costs of its African Technology Policy Studies Network.

The Research and Development
Forum for Science Led
Development in Africa (RAND
FORUM),
Nairobi, Kenya
\$90,000

Toward the costs of the negotiation process to establish the African Foundation for Research and Development (AFRAND)

United Nations Educational,
Social and Cultural Organization
(UNESCO),
Paris, France
\$100,000
For use by its International Institute for Educational Planning (IIEP) to support the activities of the Donors to African Education Task Force

University of Cape Town,
Rondebosch, South Africa
\$16,350
In support of two initiatives of its Equal Opportunity Research Project. (1) the participation of African scholars in a colloquium, "Equity policies and practices, restructuring the tertiary education sector," and (2) a project to build links with southern African universities

\$250,000
Toward the costs of a program to develop mutual linkages among sub Saharan universities through a postgraduate program in science and engineering (\$200,000 of this award is in the form of a challenge grant)

University of Namibia,
Windhoek
\$35,000
Toward the development of regional networking among southern African universities

Zimbabwe Mozambique
Friendship Association,
Harare
\$30,000
Toward the costs of post "O" level technical training of 60 Mozambican students in Zimbabwe

Foundation administered project
\$183,800
Toward the costs of a series of small innovative projects relevant to the Foundation's Science Based Development program.

Advanced Training Fellowships

AGRICULTURAL SCIENCES

BANGLADESH

Md Enamul Haq, Molecular
Biology
Appointed from University of Dhaka
Place of Study Purdue University, West Lafayette, Indiana.

Md Safiullah Pathan, Rice
Biotechnology
Appointed from Bangladesh Rice Research Institute, Gazipur
Place of Study Texas Tech University, Lubbock.

CHINA

Chen Xiongfang,
Biochemistry/Proteins
Appointed from Zhejiang Agriculture University, Zhejiang
Place of Study Cornell University, Ithaca, New York.

Luo Ming, Crop Genetic
Mapping/Apomixis
Appointed from Sichuan Agricultural University, Sichuan
Place of Study CSIRO Division of Plant Industry, Canberra, Australia.

Song Wenyan, Plant Molecular
Biology
Appointed from Institute of Genetics, Academia Sinica, Beijing
Place of Study University of California, Davis

Wang Bei, Rice Biotechnology
Appointed from Fudan University, Shanghai.
Place of Study University of California, Davis

Xu Yao, Plant Genetic
Engineering
Appointed from Zhongshan University, Guangzhou.
Place of Study The Salk Institute, La Jolla, California.

Yan Yutang, Plant
Pathology/Virology
Appointed from Institute of Microbiology, Chinese Academy of Agricultural Sciences, Beijing
Place of Study John Innes Institute, Norwich, England.

Yang Guanpin, Rice
Biotechnology
Appointed from Huazhong Agricultural University, Hubei
Place of Study Virginia Polytechnic Institute and State University, Blacksburg

Yang Hong, Molecular Biology
Appointed from Biotechnology Research Center, Chinese Academy of Agricultural Sciences, Beijing
Place of Study University of Missouri, Columbia.

Zhan Xiaoyan, Rice
Biotechnology
Appointed from China National Rice Research Institute, Hangzhou.
Place of Study Yale University, New Haven, Connecticut.

Zhang Guangming, Plant
Molecular Biology
Appointed from Beijing University, Beijing
Place of Study The Scripps Research Institute, La Jolla, California.

Zhang Xian, Crop Genetic
Mapping/Sorghum
Appointed from Liaoning Academy of Agricultural Sciences, Shenyang, Liaoning
Place of Study Texas A&M University, College Station.

INDIA

Anil Grover, Molecular Biology
Appointed from University of Delhi, New Delhi.
Place of Study CSIRO Division of Plant Industry, Canberra, Australia.

Syed Moshun Ibrahim, Plant
Breeding
Appointed from Tamil Nadu Agricultural University, Coimbatore
Place of Study University of California, Davis

Rajinder Kumar Jain, Genetics.
Appointed from Haryana Agricultural University, Hisar. Place of Study: University of Nottingham, England.

Gundimeda Jwala Narasimha Rao, Molecular Biology.
Appointed from Central Rice Research Institute, Cuttack. Place of Study: Texas A&M University, College Station.

Vaidyanathan Subramanian, Sorghum/Genetic Mapping.
Appointed from International Crops Research Institute for the Semi-Arid Tropics, Patancheru. Place of Study: Purdue University, West Lafayette, Indiana.

INDONESIA

Sutrisno, Molecular Biology.
Appointed from Central Research Institute Food Crops, Bogor. Place of Study: Michigan State University, East Lansing.

KENYA

Francis Nang'ayo, Ecology/Entomology.
Appointed from Kenya Agricultural Research Institute, Mugaga. Place of Study: Imperial College of Science, Technology and Medicine, London, England.

KOREA

Sang-Soo Oh, Rice Biotechnology.
Appointed from Agricultural Biotechnology Institute, Rural Development Administration, Suwon. Place of Study: Ohio State University, Columbus.

MALAWI

Daniel Jamu, Ecology.
Appointed from International Center for Living Aquatic Resources Management, Zomba. Place of Study: University of California, Davis.

UGANDA

Bernard Bashaasha, Agricultural Economics and Rural Sociology.
Appointed from Ministry of Agriculture, Animal Industry and Fisheries, Kampala. Place of Study: Ohio State University, Columbus.

Barnabas A. Kiiza, Agricultural Economics.
Appointed from Makerere University, Kampala. Place of Study: University of Minnesota, St. Paul.

James R. K. Ssemwanga, Plant Science/Horticulture/Fruit.
Appointed from Makerere University, Kampala. Place of Study: Silso College, Cranfield Institute of Technology, Bedford, England.

Dick Sserunkuuma, Agricultural Economics.
Appointed from Makerere University, Kampala. Place of Study: University of Minnesota, St. Paul.

ZIMBABWE

Martin Bepete, Pomology.
Appointed from Horticultural Research Centre, Marondera. Place of Study: Cornell University, Ithaca, New York.

Stephen Machado, Agronomy.
Appointed from Ministry of Lands, Agriculture and Water Development, Harare. Place of Study: Kansas State University, Manhattan.

Zibusiso Ndlovu, Nematology.
Appointed from Ministry of Lands, Agriculture and Water Development, Harare. Place of Study: University of Reading, England.

Pangirai Tongoona, Crop Genetic Mapping.
Appointed from University of Zimbabwe, Harare. Place of Study: Michigan State University, East Lansing.

POPULATION SCIENCES

ARGENTINA

Pablo Eduardo Visconti, Reproductive Biology.
Appointed from National Council of Science, Buenos Aires. Place of Study: University of Pennsylvania, Philadelphia.

BENIN

Timothee Gandaho, Demography.
Appointed from Centre de Recherche en Reproduction Humaine et Demographie, Cotonou. Place of Study: London School of Hygiene and Tropical Medicine, England.

CHINA

Guo Shu-Ying, Reproductive Biology.
Appointed from Beijing Medical University, Beijing. Place of Study: University of Iowa, Iowa City.

Lei Hanqin, Reproductive Biology.
Appointed from Xian Medical University, Xian. Place of Study: University of Pennsylvania, Philadelphia.

GHANA

Clement Ahiadeke, Demography.
Appointed from University of Ghana, Legon. Place of Study: Cornell University, Ithaca, New York.

Susanna Regina Ubomba-Jaswa, Demography.
Appointed from University of Ghana, Legon. Place of Study: Harvard University, Cambridge, Massachusetts, and London School of Hygiene and Tropical Medicine, England.

INDIA

Indrani Chakraborty, Reproductive Biology.
Appointed from Jadaupur University, Jadaupur. Place of Study: University of Kansas, Kansas City.

Pallavi Chandramohan Ishwad, Reproductive Biology.
Appointed from Institute for Research in Reproduction, Bombay. Place of Study: University of Pittsburgh, Pennsylvania.

Charu Kaushic, Reproductive Biology.
Appointed from Dartmouth Medical School, Lebanon, New Hampshire. Place of Study: Dartmouth Medical School, Lebanon, New Hampshire.

Jayashree Mitra, Reproductive Biology.
Appointed from Indian Institute of Chemical Biology, Calcutta. Place of Study: University of Pennsylvania, Philadelphia.

Gundala Harold Philip, Reproductive Biology.
Appointed from Sri Krishnadevaraya University, Anantapur. Place of Study: Morehouse School of Medicine, Atlanta, Georgia.

Faujdar Ram, Demography.
Appointed from International Institute for Population Sciences, Bombay. Place of Study: Ohio State University, Columbus.

Jaladanki Nageswara Rao, Reproductive Biology.
Appointed from Sri Venkateswara University, Tirupati. Place of Study: Southern Illinois University School of Medicine, Carbondale.

NIGERIA

Stephen Ogbonnaya Ogwuegbu, Reproductive Biology.
Appointed from University of Ibadan, Ibadan. Place of Study: Georgetown University Medical Center, Washington, D.C.

Abayomi Olugbenga Okanlawon,
Reproductive Biology
*Appointed from University of
Lagos, Lagos*
Place of Study Georgetown
University Medical Center,
Washington, DC

SUDAN

El Rayah Abdalla Osman,
Demography
*Appointed from the University of
Gezira, Wad Medani.*
Place of Study Brown University,
Providence, Rhode Island.

UNITED STATES/MAI ASIA

Angelique Chan, Demography
*Appointed from the University of
California, Los Angeles*
Place of Study University of
California, Los Angeles

UNITED STATES

Rhonda Marie Gillett,
Demography
*Appointed from Indiana
University, Bloomington.*
Place of Study Indiana
University, Bloomington

Mary Catherine Maternowska,
Demography
*Appointed from Columbia
University, New York, New York.*
Place of Study Columbia
University, New York, New York

VIETNAM

Nguyen Minh Thang,
Demography
*Appointed from National
Committee for Population and
Family Planning of
Vietnam, Hanoi.*
Place of Study University of
Washington, Seattle

Biotechnology Career
Fellowships

AGRICULTURAL SCIENCES

ARGENTINA

Juan Jose Guamet, Universidad
Nacional de La Plata
*Dismantling of the light harvesting
complexes during senescence
characterization, protein degrada-
tion rates, and temporal changes in
gene expression, at the University
of Michigan, Ann Arbor*

Susana Patricia Stock,
Universidad Nacional de La Plata
*Combining taxonomy and ecology
of insect parasitic nematodes for
biological control, at the
University of California, Davis*

Enrique Y Suárez, Instituto de
Recursos Biológicos, CIRN/INTA,
Castelar, Buenos Aires
*Detection of diagnostic markers to
ease the handling of wheat genes
of agronomic importance to breed-
ing programs and germ plasm
evaluation in developing countries,
at Cambridge Laboratory,
Norwich, England.*

CHINA

Cao Weixing, Nanjing
Agricultural University
*The physiological impact of adding
transgenes to rice plant by modify-
ing a rice crop growth model, at
Oregon State University, Corvallis*

Hong Guo fang, Shanghai
Institute of Biochemistry
*Molecular biology of genes encod-
ing auxin binding proteins, at
Yale University, New Haven,
Connecticut. (Renewal)*

Jia Jizeng, Institute of Crop
Germplasm Resources, Beijing
*Molecular markers for alien gene
transfer and evolutionary studies
in Truiceae, at Cambridge
Laboratory, Norwich, England.*

Tang Ji Liang, Guangxi
Agricultural University, Nanning
*Molecular studies on the interac-
tion between rice plant and
Xanthomonas oryzae Pathovar
oryzae, at Sainsbury Laboratory,
Norwich, England.*

Yang Jinshui, Fudan University,
Shanghai
*Anchoring yeast artificial chromo-
somes and constructing a physical
map of the rice (Oryza sativa L.)
genome, at Texas A&M
University, College Station.
(Renewal)*

Zhu Yuxian, National Laboratory
of Protein Engineering and Plant
Genetic Engineering, Beijing
*Molecular mechanisms of senes-
cence in G2 pea, at Washington
University, St. Louis, Missouri.*

INDIA

Pallu Reddanna, University of
Hyderabad
*Structural and mechanistic studies
on 5 lipoxygenase, at
Pennsylvania State University,
University Park.*

M S Shaila, Indian Institute of
Science, Bangalore
*Molecular changes in the genome
of Rinderpest virus in persistent
state, at Pirbright Laboratory,
Institute for Animal Health,
Woking, England. (Renewal)*

KORFA

Moon Eunpyo, Ajou University,
Suwon
*Genetic modification of the rice
glutelin cDNA and expression of
the engineered glutelin gene in
transgenic rice plant, at Cornell
University, Ithaca, New York.*

Oh Suk Heung, Chonju Woo Suk
University
*Effects of salt stress on the
calmodulin system in plants, at
University of Tennessee, Knoxville*

NIGERIA

Godwin Onyemaechi Egwu,
University of Maiduguri
*Differentiation of subspecies of
mycoplasmas of the "Mycopoides
cluster" using SDS PAGE or
restriction endonucleases and mon-
oclonal antibodies, at Central
Veterinary Laboratory, New Hau,
Weybridge, England.*

THAI AND

Paisarn Sithigorngul,
Srinakharinwirote University,
Bangkok
*Separation of neuropeptides from
nematode Ascaris, at the
University of Wisconsin, Madison*

HEALTH SCIENCES

ARGENTINA

Luis S Mayorga, Universidad
Nacional de Cuyo, Mendoza
*Biochemical characterization of
phagosome maturation in normal
and Mycobacterium avium
infected macrophages, at
Washington University, St. Louis,
Missouri. (Renewal)*

BRAZIL

Diógenes Santiago Santos,
Universidade Federal do Rio
Grande do Sul, Porto Alegre
*DNA supercoiling, regulation of
gene expression and virulence in
Salmonella typhimurium, at
Imperial Cancer Research Fund,
University of Oxford, England.*

Sergio Schenkman, Escola
Paulista de Medicina, São Paulo
*Trans sialidase gene inactivation
in Trypanosoma cruzi, at New
York University, New York*

CHINA

Yang Ke, Beijing Institute
for Cancer Research
*An in vitro model of human gastric
cancerogenesis, at National Cancer
Institute, National Institutes of
Health, Bethesda, Maryland*

INDIA

Rentala Madhubala, Jawaharlal
Nehru University, New Delhi
*Gene amplification and drug
resistance in Leishmania, at
Seattle Biomedical Research
Institute, Washington.*

D Narasimha Rao, Indian
Institute of Science, Bangalore
*Cytosine methylases—a model
system to study DNA-protein
interactions, at New England
Biolabs, Beverly, Massachusetts*

NIGERIA

Ayoade M. J. Oduola, University of Ibadan.

Pharmacokinetic and drug interaction in clinical application of reversal phenomenon, at Walter Reed Army Institute of Research, Washington, D.C. (Renewal)

SIERRA LEONE

Aiah A. Gbakima, University of Sierra Leone.

Changes in immune response after treatment with ivermectin in children age four and older, at Johns Hopkins University, Baltimore, Maryland

VENEZUELA

Rosalba Salas, Instituto Nacional de Higiene "Rafael Rangel," Caracas.

Molecular epidemiology and diagnosis of Guanarito virus infection, at Yale University, New Haven, Connecticut

POPULATION SCIENCES

CHINA

Zhang Meilin, Institute of Basic Medical Sciences, Beijing.

Molecular cloning and characterization of the cDNA encoding a human sperm protein, at Population Council, New York

INDIA

Ramesh Chandra, University of Delhi.

A4 amyloid-related proteins in sperm: structure, function, and genetics, at Population Council, New York

NIGERIA

Bankole O. Oke, University of Ibadan.

Epidermal growth factors in spermatogenesis, at Georgetown University Medical Center, Washington, D.C.

Social Science Research Fellowships in Agriculture and in Population Studies

AGRICULTURAL SCIENCES

Gilles Bergeron, a rural sociologist studying sustainable development of the Central American hillsides, while located at International Food Policy Research Institute (IFPRI) project in Guatemala City, Guatemala

Eve Crowley, an anthropologist studying opportunity costs and investment choices in biological resources and other soil management techniques, while located at International Centre for Research in Agroforestry (ICRAF), Nairobi, Kenya, in collaboration with Tropical Soil Biology and Fertility Programme (TSBF), Nairobi.

Sarah Gavian, an agricultural economist studying resource use in crop-livestock systems in the Ethiopian highlands, while located at International Livestock Centre for Africa (ILCA), Addis Ababa, Ethiopia.

Jan Low, an agricultural economist studying potato and sweet potato in the food systems of eastern and central Africa, while located at International Potato Center (CIP) project in Nairobi, Kenya.

Bradford Mills, an agricultural economist assisting the Kenya Agricultural Research Institute to develop its capacity for priority setting and research planning, while located at the International Service for National Agricultural Research (ISNAR) project in Nairobi, Kenya.

Kristen Nelson, an environmental sociologist studying rural agricultural production systems, while located at Centro de Investigaciones Ecológicas del Sureste, San Cristóbal de las Casas, Mexico.

Lisa Price, an anthropologist studying the use of modern cultivars in unfavorable rice-growing environments, while located at International Rice Research Institute (IRRI), Los Baños, Philippines.

Katherine Snyder, an anthropologist studying the economic and social aspects of agroforestry techniques, while located at International Centre for Research in Agroforestry (ICRAF), Nairobi, Kenya.

POPULATION SCIENCES

Susan Parker, an economist studying the effect of women's participation in the labor force on fertility in Mexico, while located at El Colegio de México, Mexico City.

Brent Wolff, a sociologist studying the health transition in developing countries, while located at the Institute of Statistics & Applied Economics, Makerere University, Kampala, Uganda.

Elizabeth Zenger, a demographer studying international public health and population issues, and the development and application of statistical methods for demographic research, while located at the Institute of Population Research, Peking University, China.

Arts and Humanities Grants

The Arts and Humanities division encourages creative artists and scholars in the humanities whose work can advance international and intercultural understanding in the United States. The division therefore supports activities extending international and intercultural scholarship, and increasing artistic experimentation across cultures.

EXTENDING INTERNATIONAL AND INTERCULTURAL SCHOLARSHIP

Berkshire Conference of Women Historians,
Chapel Hill, North Carolina
\$10,000
For the travel costs of Latin American participants in the Ninth Berkshire Conference on Women's History.

College Art Association,
New York, New York
\$40,000
Toward the costs of its mentoring program and its 1994 annual conference.

Columbia University,
New York, New York
\$50,000
For use by its Center for American Culture Studies toward the costs of its publication, "Encyclopedia of African American Culture and History."

Duke University,
Durham, North Carolina
\$19,500
For use by its Literature Program toward the costs of the conference, "Rethinking Culture in a Globalizing World."

Harvard University,
Cambridge, Massachusetts
\$25,000
Toward the costs of its Black Periodical Literature Project.

Land Institute,
Salinas, Kansas
\$50,000
Toward the costs of its visiting scholars program.

Dismas Masolo,
Nairobi, Kenya
\$14,500
Toward the costs of editing for publication the papers of an April 1993 conference, "African Philosophy and Critical Inquiry."

Carlos Montemayor,
Mexico City, Mexico
\$65,530
For a project, "Contemporary Mayan Literature."

National Association of Latino Arts and Culture,
San Antonio, Texas
\$14,600
Toward the costs of publishing and distributing the proceedings of its 1992 conference, "Crossing Borders: The Next 100 Years."

National Cultural Alliance,
Washington, D.C.
\$25,000
Toward the costs of its national campaign for expanding public awareness of the critical role of the arts and humanities in the U.S. (Also listed under the division's guideline Increasing Artistic Experimentation Across Cultures, for a total of \$50,000.)

National Humanities Alliance,
Washington, D.C.
\$30,000
Toward the costs of an educational project designed to demonstrate the value of scholarly research in the humanities to members of Congress and congressional staff.

National Religious Partnership for the Environment,
New York, New York
\$100,000
Toward the costs of the international components of its educational, research and consultative activities.

Resident Fellowships in the Humanities
[1993 - \$2,800,000, in addition to remaining funds from prior year appropriations]
To advance scholarship that illuminates international and intercultural issues and institutional sites where such scholarship is sustained.

American Film Foundation,
Santa Monica, California
\$37,000
To complete the development phase of a public television series, "Tales from the Center of the Universe," a project begun by the D'Arcy McNickle Center for the History of the American Indian at the Newberry Library, a humanities residency site from 1985-91.

Asia Society,
New York, New York
\$25,000
Toward the costs of its contemporary arts initiative, "Asia/America 1994." (Also listed under the division's program, Understanding Cultures Through Museums, for a total of \$50,000.)

Associação Cultural Estudos Contemporaneos,
Rio de Janeiro, Brazil
\$250,000
Toward the costs of a program of Rockefeller Foundation Resident Fellowships in the Humanities at the Centro Interdisciplinar de Estudos Contemporaneos, Rio de Janeiro.

\$20,000
To administer the program of Rockefeller Foundation Resident Fellowships in the Humanities at the Centro Interdisciplinar de Estudos Contemporaneos, Rio de Janeiro.

Center for Educational Telecommunications,
San Francisco, California
\$25,000
Toward the costs of its retreat/workshop on Asian-American history. (Also listed under the division's guideline Increasing Artistic Experimentation Across Cultures, for a total of \$50,000.)

El Colegio de la Frontera Norte,
Tijuana, Mexico
\$83,500
Toward the costs of a research program on the history of the Mexico-United States border region.

\$83,500
Toward the costs of a research program on contemporary cultural identities of the Mexican population and Americans of Mexican origin.

Curare: Espacio Crítico para Las Artes,
Mexico City, Mexico
\$250,000
Toward the costs of its program of Rockefeller Foundation Resident Fellowships.

Duke University,
Durham, North Carolina
\$248,000
Toward the costs of a program of Rockefeller Foundation Resident Fellowships at the Triangle South Asian Consortium.

Graduate School and University Center of the City University of New York
\$42,850
Toward the costs of an Inter-American conference on cultural studies, held in Mexico City in May 1993.

\$26,300
Toward planning costs for a project, "Families, Values, and the Public School Curriculum: The Role of CUNY Educators."

Howard University,
Washington, D.C.
\$250,000
Toward the costs of a program of Rockefeller Foundation Resident Fellowships at its Center for the Study of Culture and Development in Africa.

Lakehead University,
Thunder Bay, Canada
\$250,000
Toward the costs of a program of Rockefeller Foundation Resident Fellowships at its Native Philosophy Project.

New York University,
New York
\$250,000
Toward the costs of a program of Rockefeller Foundation Resident Fellowships at its Center for Media, Culture, and History.

Research Foundation of the City University of New York,
New York
\$10,500
Toward the costs of a retreat and colloquia for the five Rockefeller Foundation Resident Fellowship programs within the City University of New York.

Rutgers University,
New Brunswick, New Jersey
\$250,000
Toward the costs of a program of Rockefeller Foundation Resident Fellowships at its Center for Critical Analysis of Contemporary Culture.

Universidad Autónoma Metropolitana,
Mexico City, Mexico
\$250,000
Toward the costs of a research project on urban culture in Mexico City.

University of Chicago,
Chicago, Illinois
\$250,000
Toward the costs of a program of Rockefeller Foundation Resident Fellowships at its Chicago Humanities Institute.

Yale University,
New Haven, Connecticut
\$50,000
Toward the costs of an interdisciplinary and comparative program for U.S. and third-world scholars in agrarian studies. (Additional funding from the division listed separately under this guideline, for a total of \$350,000.)

Foundation-administered project
\$75,000
Program support expenses.

Texas A&M University,
College Station
\$15,000
Toward the costs of developing "A New Agenda for the Humanities in Development" at its Center for Biotechnology Policy and Ethics.

Understanding Cultures Through Museums
[1993 - \$1,000,000, in addition to remaining funds from prior year appropriations]
To enable museums to conduct research for, develop, and present accurate, imaginatively powerful exhibitions of non-Western and American minority cultures.

Alternative Center for International Arts Inc. (Alternative Museum),
New York, New York
\$50,000
Toward the costs of its exhibition, "Rupert Garcia: A New Look."

American Craft Museum,
New York, New York
\$50,000
Toward the costs of the exhibition, "Within Our Shores: 1920-1945."

Amigos del Museo del Barrio, Inc.,
New York, New York
\$25,000
Toward the costs of research and publication of a bilingual catalogue for its 1994 exhibition, "Recovering History."

Asia Society,
New York, New York
\$25,000
Toward the costs of its contemporary arts initiative, "Asia/America 1994." (Also listed under the division's program, Resident Fellowships in the Humanities, for a total of \$50,000.)

Bronx Museum of the Arts,
New York
\$50,000
Toward the costs of its exhibition, "Beyond the Border: Art by Recent Immigrants."

Cleveland Center for Contemporary Art,
Ohio
\$35,000
Toward the costs of its exhibition, "Outside the Frame: Performance and the Object."

Denver Art Museum,
Colorado
\$100,000
Toward the costs of its exhibition, "Landscape as Metaphor."

Edmundson Art Foundation,
Des Moines, Iowa
\$25,000
Toward the costs of a definitive exhibition of American Indian "parfleche," organized by the Des Moines Art Center.

Houston FotoFest, Inc.,
Texas
\$75,000
Toward the costs of its exhibition, "American Voices: Latino/Hispanic/Chicano Photography in the United States."

Japanese American National Museum,
Los Angeles, California
\$50,000
Toward the costs of its exhibition, "The Nisei Years: Growing Up Japanese American."

Mexican Museum,
San Francisco, California
\$45,000
Toward the costs of its exhibition, "Ceremony of Memory II: New Expressions of Spirituality Among Contemporary Latino Artists."

Museum for African Art (formerly Center for African Art),
New York, New York
\$100,000
Toward the costs of its exhibition, "FUSION: African Artists at the Venice Biennale 1993."

Museum of Fine Arts,
Houston, Texas
\$50,000
Toward the costs of its exhibition, "The Art of John Biggers: A World View."

Museum of Modern Art,
New York, New York
\$125,000
Toward the costs of its exhibition, "Latin American Artists of the Twentieth Century."

Museum of New Mexico Foundation,
Santa Fe
\$75,000
Toward the costs of the Museum of International Folk Art's exhibition, "Recycled, Reseñ: Folk Art in a Post-Industrial World."

New Museum of Contemporary Art,
New York, New York
\$75,000
Toward the costs of its exhibition, "Trade Routes."

Robert Abbe Museum of Stone Age Antiquities,
Bar Harbor, Maine
\$15,000
For an exhibit and related programs on the art of Passamaquaddy artist Tomah Joseph.

Rutgers University,
Newark, New Jersey
\$20,000
Toward the costs of the exhibition, "Recovering Histories: Aspects of Contemporary Art in Chile since 1982" at its Center for Latino Arts and Culture.

Solomon R Guggenheim
Foundation,
New York, New York
\$58,000
*Toward the local costs of the
African Art exhibition at the 1993
Venice Biennale organized by the
Peggy Guggenheim Collection.*

University of California,
Los Angeles
\$25,000
*Toward the costs of completing the
African Series in the Marcus
Garvey and Universal Negro
Improvement Association (UNIA)
Papers at its African Studies
Center*

University of Houston,
Texas
[1993 - \$300,000, in addition to
remaining funds from prior year
appropriations]
*Toward the costs of a long term
research, preservation, and publi-
cation project to recover the
Hispanic literary heritage of the
United States*

Visual Arts Resource and
Research Center
Relating to the Caribbean, Inc.,
New York, New York
\$25,000
*Toward the costs of its 1993 con-
ference, "Cultural Diversity Based
on Cultural Grounding III"*

Yale University,
New Haven, Connecticut
\$300,000
*Toward the costs of an interdis-
iplinary and comparative program
for US and third world scholars
in agrarian studies (Also listed
under the division's Resident
Fellowships in Humanities pro-
gram, for a total of \$350,000)*

INCREASING ARTISTIC
EXPERIMENTATION ACROSS
CULTURES

Alternative Media Information
Center,
New York, New York
\$15,000
*Toward the costs of "Gays and
Film," a project by Alan
Hertzberg, in collaboration with
the Museum of Modern Arts
Stonewall exhibition.*

American Civil Liberties Union
Foundation, Inc.,
New York, New York
\$25,000
*Toward the costs of its Arts
Censorship Project, a legal advo-
cacy and public education
program.*

Art Matters, Inc.,
New York, New York
\$50,000
*Toward the costs of its national
fellowship program for individual
visual artists*

Arts Midwest,
Minneapolis, Minnesota
\$25,000
*Toward the costs of phase III
of its Cultural Development
Program*

Artists' Projects Regional
Initiative
[1993 \$300,000, in addition to
remaining funds from prior year
appropriations]
*To assist emerging American per-
forming artists to develop new
work and reach new audiences
through arts organizations in their
own parts of the country*

*Each grantee below receives addi-
tional funds from the National
Endowment for the Arts and The
Andy Warhol Foundation for the
Visual Arts to administer a
regional regranting program sup-
porting projects by individual
artists*

Alternate ROOTS,
Atlanta, Georgia
\$21,400
*To administer the Initiative in
Georgia, Kentucky, North
Carolina, South Carolina, and
Tennessee*

Arts Company, Inc.,
Cambridge, Massachusetts
\$8,010
*For organizing a meeting to con-
sider reconfiguration of the
California/Hawaii component by
the Initiative*

Colorado Dance Festival,
Boulder
\$21,400
*To administer the Initiative in
Colorado, Idaho, Montana,
Nevada, Wyoming and Utah.*

Contemporary Arts Center,
New Orleans, Louisiana
\$21,800
*To administer the Initiative in
Alabama, Arkansas, Louisiana,
and Mississippi.*

DiverseWorks,
Houston, Texas
\$23,400
*To administer the Initiative in
Arizona, New Mexico, Oklahoma,
and Texas*

Florida Dance Association,
Miami
\$12,400
*To administer the Initiative
in Florida.*

Intermedia Arts of Minnesota,
Minneapolis
\$19,800
*To administer the Initiative in
Iowa, Minnesota, Kansas,
Nebraska, North Dakota, South
Dakota, and Wisconsin.*

Los Angeles Contemporary
Exhibitions,
California
\$23,300
*To administer the Initiative in
California and Hawaii.*

New England Foundation for the
Arts,
Cambridge, Massachusetts
\$22,200
*To administer the Initiative in
Connecticut, Maine,
Massachusetts, New Hampshire,
Rhode Island, and Vermont*

On the Boards,
Seattle, Washington
\$16,400
*To administer the Initiative in
Washington, Oregon, and Alaska*

Painted Bride Art Center,
Philadelphia, Pennsylvania
\$18,700
*To administer the Initiative in
Delaware, Maryland, New Jersey,
Pennsylvania, Virginia, West
Virginia, and the District of
Columbia.*

Puerto Rico Community
Foundation, Inc
Hato Rey
\$9,400
*To administer the Initiative in
Puerto Rico*

Pyramid Arts Center, Inc
Rochester, New York
\$23,400
*To administer the Initiative in
New York.*

Randolph Street Gallery,
Chicago, Illinois
\$21,400
*To administer the Initiative in
Illinois, Indiana, Michigan, and
Ohio*

Foundation administered project
\$35,000
*For administrative costs of the
program.*

Asian American Arts Alliance,
New York, New York
\$20,000
*For the costs of the policy meet-
ings of its "Beyond Boundaries"
conference and follow-up activities*

Cambodian Association of
America,
Long Beach, California
\$19,600
*For a performance and video of
Cambodian classical dance*

Center for Educational
Telecommunications,
San Francisco, California
\$25,000
*Toward the costs of us
retreat/workshop on Asian
American history (Also listed
under the division's guideline
Extending International and
Intercultural Scholarship, for a
total of \$50,000)*

Columbia College,
Chicago, Illinois
\$20,000
*Toward the costs of a 1993
National Conference on Black
Music Research organized by its
Center for Black Music Research*

Crossroads, Inc.,
New Brunswick, New Jersey
\$50,000
*Toward the costs of developing
new works through the 1994 New
Play Rites Program.*

Dance Bay Area,
San Francisco, California
\$30,000
*Toward the costs of the 1993 Bay
Area Fund for Dance
Commissioning Project*

Dance Theatre of Harlem, Inc.,
New York, New York
\$50,000
*Toward the post-production costs
of a feature length film of its his-
toric South African tour*

Dance Theatre Workshop,
New York, New York
[1993 \$300,000, in addition to
remaining funds from prior appro-
priations]
*Toward the costs of continued sup-
port for its Suitcase Fund, a
program of regional touring and
collaboration by artists and per-
forming arts companies from the
US and abroad*

Eugene O'Neill Memorial
Theatre Foundation, Inc.,
Waterford, CT
\$24,800
*For South American and African
participation in the 1994
International Playwrights
Conference*

Festival Fund
[1993 \$750,000, in addition to
remaining funds from prior appro-
priations]
*To encourage festival activities in
the United States that broaden
intercultural or international
exchange*

American Dance Festival, Inc.,
New York, New York
\$147,500
*Toward the costs of its interna-
tional Choreographers Workshop
and other international activities*

American Music Theater Festival,
Inc.,
Philadelphia, Pennsylvania
\$50,000
*Toward the costs for development
of new works for its 1993
CrossCurrents Festival.*

Appalshop, Inc.,
Whitesburg, Kentucky
\$50,000
*Toward the costs of its 1992-93
American Festival Project.*

Brooklyn Academy of Music, Inc.,
New York, New York
\$50,000
*Toward the costs of planning
international events of the 1993
Next Wave Festival.*

Contemporary Arts Center,
New Orleans, Louisiana
\$50,000
*Toward the costs of its 1994 Live
Arts Festival entitled "Reworking
the Roots A Neo Hoodoo
Happening"*

International Theatre Festival of
Chicago,
Illinois
\$812
*For expenses associated with a
meeting of festival presenters to
discuss sharing production costs in
the 1994 season.*

Jacob's Pillow Dance Festival,
Inc.,
Lee, Massachusetts
\$36,688
*Toward the costs of its 1993
International Art Residencies
Program.*

Junebug Productions, Inc.,
New Orleans, Louisiana
\$25,000
*Toward the costs of a 1993 confer-
ence representing a mini version
of its planned 1997 festival, which
will support the environmental
justice movement*

Kings Majestic Corporation,
Brooklyn, New York
\$35,000
*Toward the costs of the first year
of its research and planning phase
for a 1995 World Art Festival.*

Los Angeles Festival,
California
\$200,000
*Toward the costs of the 1993 Los
Angeles Festival and a subsequent
evaluative conference*

Pregones Touring Puerto Rican
Theatre Collection, Inc.,
Bronx, New York
\$75,000
*Toward the costs of its 1993
TeatroFestival.*

Teatro Avante,
Coral Gables, Florida
\$50,000
*Toward the costs of the Seventh
International Theatre Festival.*

Theatre for the New City,
New York, New York
\$22,000
*Toward the costs of the 1993 Eco
Festival activities of its Circuit
Earth Network*

The Gertrude Stein Repertory
Theatre,
New York, New York
\$20,000
*Toward the costs related to inte-
grating new technologies into the
creative process*

Grantmakers in the Arts,
Philadelphia, Pennsylvania
\$12,000
*Toward its fiscal year 1994 gen-
eral operating expenses*

Group 1 Acting Company,
New York, New York
\$50,000
*Toward the costs of planning, con-
structing, and implementing a
community based residency pro-
gram.*

Institute of International
Education,
New York, New York
[1993 \$370,000, in addition to
remaining funds from prior year
appropriations]
*To improve and increase the role
of American artists in interna-
tional visual arts exhibitions and
performing arts festivals world-
wide, through the Fund for US
Artists at International Festivals
and Exhibitions, in partnership
with the Pew Charitable Trusts,
the National Endowment for the
Arts and the US Information
Agency, and administered by Arts
International.*

Intercultural Film/Video
Program
[1993 \$1,975,000, in addition to
remaining funds from prior year
appropriations]
*To enable US and international
film and videomakers to create
independent work that explores
diverse communities, their con-
flicts, connections, and
commonalities, and to provide dis-
semination of such work to new
and under audiences here and
abroad.*

*Fellowship awardees will be
selected in early 1994 and listed
in the 1994 annual report*

Deep Dish TV, Inc.,
New York, New York
\$50,000
*For "Beyond L.A.," a documen-
tary television series produced
collaboratively between media
artists and community groups*

Echo Productions,
Kent, Washington
\$25,000
For the documentary film, "The Kontum Diary"

The Film Society of Lincoln
Center, Inc.,
New York, New York
\$15,000
*For Festival Latino in New York
1993, "New Trends in Mexican
Cinema, Part II"*

International Film Seminars, Inc.,
New York, New York
\$25,000
*For the 1993 Robert Flaherty
Seminar on Latino and Latin
American media arts*

National Asian American
Telecommunication Association,
San Francisco, California
\$50,000
*Toward the costs of the 1993/94
season of the "Living Room
Festival"*

Tamou Productions, Inc.,
New York, New York
\$12,500
*For a video documentary, "Life
on the Ethnic Fault Line"
(Additional funding from the divi-
sion listed separately under this
guideline, for a total of \$25,000)*

Videarimut,
Montreal, Canada
\$15,000
*Toward the costs of the 1994 inter-
national symposium in New
Delhi, "New Technologies and
Democratic Communications
Implications, Impact, and
Strategies for Appropriation."
(Also listed under the division's
guideline Fortifying Civil Societies
through their Cultural Institutions
for a total of \$30,000)*

Video Repetorie, Ltd.,
New York, New York
\$50,000
*Toward the costs of "South
Central Los Angeles Inside
Voices," a documentary filmed by
local, lay videographers to exam-
ine repercussions of the Los
Angeles uprising*

La Red Latinoamericana de
Productores Independientes de
Arte Contemporáneo,
Paraty, Brazil
\$250,000, in addition to
remaining funds from prior year
appropriations]
*To facilitate intracontinental
interaction among Latin American
artists and independent arts orga-
nizations*

Lincoln Center for the
Performing Arts, Inc.,
New York, New York
\$100,000
*Toward the costs of its 1993/94
"Jazz at Lincoln Center" season*

Literary Managers and
Dramaturgs of America, Inc.,
New York, New York
\$40,000
*Toward the costs of the National
Theatre Translation Fund project*

Lumiere Productions, Inc.,
\$30,000
*Toward the costs of the pre
production phase of a six hour
television series, "With God on
Our Side: The Rise of the
Religious Right in America."*

Manchester Craftsmen's Guild,
Pittsburgh, Pennsylvania
\$25,000
*Toward the costs of its
Apprenticeship Training Program.
(Joint grant with School Reform,
for a total of \$50,000)*

Mid America Arts Alliance,
Kansas City, Missouri
\$60,000
*Toward the costs of the third year
of its New Works Commissioning
Program.*

Movement Theatre International,
Philadelphia, Pennsylvania
\$11,970
*For the costs of commissioning a
theatre work by Lakota artists
from the Rosebud Reservation.*

Multi-Arts Production Fund
\$855,000, in addition to
remaining funds from prior year
appropriations]
*To support creative artists in the
performing arts whose work
reflects the boldest explorations in
intercultural and/or international
representation.*

SECTORED IN 1993

Anchorage Opera,
Alaska
\$10,000
*Toward the costs of the world pre-
miere of "Earth and the Great
Weather," conceived and composed
by John Luther Adams, in collab-
oration with writer James Nageak
and director Harry Silverstein.*

Arts Company,
Cambridge, Massachusetts
\$25,000
*Toward the costs of the creation
and presentation of a new perfor-
mance work, "The Women in My
Life," by Elia Arce*

\$35,000
*Toward the costs of the creation
and presentation of "The Other
Weapon," a mixed media theater
work, created by Robbie
McCauley in collaboration with
ten Los Angeles artists*

Bloomsburg Theatre Ensemble,
Pennsylvania
\$10,000
*Toward the costs of the Kyogen
Project, a series of Kyogen plays
developed in collaboration with
Japanese actors and directors in
residence*

BRAVA! For Women in the Arts,
San Francisco, California
\$35,000
*Toward the costs of the production
of "Watsonville," by Cherrie
Moraga, in collaboration with
musicologist John Santos*

Bread and Puppet Theater,
Barton, Vermont
\$25,000
*Toward the costs of workshops
with members of Bread and
Puppet and "Mecate," a
Nicaraguan theater collective, cul-
minating in several new works
combining traditional Nicaraguan
music, storytelling methods and
puppetry*

Cornerstone Theater Company,
Santa Monica, California
\$50,000
*Toward the costs of creation and
production of the "Los Angeles
Community Bridge Project '94,"
written by playwright Velina
Hasu Houston, and performed by
citizens of three Los Angeles com-
munities*

Daedulus Performance Company,
Los Angeles, California
\$10,000
*Toward the costs of creation of
"Energy and Light and Their
Relationship to Suicide," conceived
by interdisciplinary artist Linda
Sibio, in collaboration with com-
poser Kamil Kruta.*

Dance Theater Workshop,
New York, New York
\$10,000
*Toward the costs of the creation
and production of "Dirty Dishy
Dunne," a music theater piece by
writer/composer T'ye G'raud,
director/choreographer Anuta
Gonzalez, literary consultant
Ellen Sebastian, choreographer
Christina Jones and set designer
Helen Oj.*

Dar A Luz,
New York, New York
\$25,000
*Toward the costs of the production
of "Leaden Tears," a multi-media
theater piece by Reza Abdoh*

Dell'Arte Players Company,
Blue Lake, California
\$25,000
*Toward the costs of the "Creation
Project," a collaboration by com-
poser/musician Mark Izu, Karuk
historian, linguist and storyteller,
Julian Lang, Karuk visual artist
Brian Tripp, and Dell'Arte artists,
Michael Fields, Donald Horrest
and Joan Schule*

East Bay Center for the
Performing Arts,
Richmond, California
\$25,000
*Toward the costs of the commis-
sion and production of an original
dance theater suite by West
African music and dance master
C.K. Ladzekpo and Brazilian
Capoeira master Bira Almeida.*

- El-Hakawati,
Paris, France
\$25,000
Toward the costs of the production of "Saint Genet Backstage," a new play by co-writers Francois Abou Salem and Francine Gaspar.
- En Garde Arts,
New York, New York
\$25,000
Toward the costs of the production of "Stonewall," a site-specific piece written and directed by Tina Landau with original music by Ricky Gordon to be presented in the context of PRIDE '94 and the Gay Games.
- Foundation for Dance Promotion (Bill T. Jones/Arnie Zane Dance Company),
New York, New York
\$50,000
Toward the costs of the second phase of choreographer/director Bill T. Jones' "Still/Here," with music by Vernon Reid and Kenneth Frazelle, and design by media artist Gretchen Bender.
- Gamelan Pacifica,
Seattle, Washington
\$25,000
Toward the costs of the "Columbian Exposition Centennial Project," a commemoration of 100 years of gamelan and Indonesian influence on American culture by director Kent Devereaux, puppetmaster/musician Sri Djoko Rahardja, composer Jarrad Powell, composer/musician Tony Prabowo, and designer John Boesche.
- Haleakala, Inc. (The Kitchen),
New York, New York
\$25,000
Toward the costs of the commission, development and premiere of "The Negro Burial Ground," a new music-theater work by composer Leroy Jenkins and librettist Ann T. Green.
- Highways Performance Space,
Santa Monica, California
\$10,000
Toward the costs of the development and production of "Breath," an original solo theater piece by Tim Miller, with a score by Michael Callen.
- Honolulu Theatre for Youth,
Hawaii
\$10,000
Toward the costs of the development, production and tour of "...And the People Spoke Music, Stories of the Marshall Islands," a play of stories, song and dance created by playwright Daniel A. Kelin II, in collaboration with Marshallese elders, Jia Hisaiah and Iban Edwin.
- House Foundation for the Arts,
New York, New York
\$10,000
Toward the costs of the development of a new work by Meredith Monk.
- International Arts Relations (INTAR),
New York, New York
\$25,000
Toward the costs of the development and premiere of "The Popol Vuh" project (working title), a music-theater work, by playwright Cherrie Moraga, puppetmaster Ralph Lee and composer Glen Velez.
- Intersection for the Arts,
San Francisco, California
\$10,000
Toward the costs of the development and presentation of "What Fatima is Going to Do with Her Hair," a collaboration with the Darvag Iranian Theater Company of Berkeley, and co-author/performers Roham Shaikhani, Geeta Tahmasebi, actor Mansour Tazed, set designer Lauren Elder, and co-director/dramaturgs Paul Codiga and Erik Ehn.
- Junebug Productions, Inc.,
New Orleans, Louisiana
\$10,000
Toward the costs of the development of a one-woman theater piece, "Five Dollars a Day and Carfare," about domestic workers in New Orleans, by performer/storyteller Adelle Gautier, writer/director John O'Neal, director Steven Kent, composer Carl LeBlanc, and designer John T. Scott.
- Los Angeles Poverty Department,
California
\$35,000
Toward the costs of a six-week collaboration between LAPD and Goat Island from Chicago culminating in two performances, one directed by LAPD's John Malpede and one by Lin Hixson of Goat Island.
- Mayfair,
Allentown, Pennsylvania
\$35,000
Toward the costs of a long-term residency and production by Teatro Pregones from the South Bronx, produced in conjunction with Muhlenberg College and Casa Guadalupe Center.
- Music-Theater Group,
New York, New York
\$10,000
Toward the costs of the production of "America Dreaming," a new music-theater work by Chiuri Miyagawa.
- Opera Ebony,
New York, New York
\$25,000
Toward the costs of the commission and development of "The Calling," a new opera by poet Dolores Kendrick and Robert Convery.
- Otvorena Scena Obala (Open Stage Obala),
Republika Bosnia/Hercegovina
\$25,000
Toward the costs of the production of "Witnesses of Existence," a performance art/installation conceived and organized by and in tribute to Open Stage Obala, which was destroyed during the war in Sarajevo.
- Performance Space 122,
New York, New York
\$10,000
Toward the costs of the development of "Unending Pain," by composer Deidre Murray and director/librettist Laurie Carlos.
- Perseverance Theatre,
Douglas, Alaska
\$25,000
Toward the costs of a collaboration with The Talking Band to produce "Lilac & Flag," adapted from the novel by Talking Band director, Paul Zimet, with composer Ellen Maddow, choreographer Lynette Turner, set designer Theodora Skipitares, lighting designer Arthur Rotch and costume designer Vikki Benner.
- Ping Chong and Company,
New York, New York
\$35,000
Toward the costs of the development and premiere of "Chinoiserie," by Ping Chong, with a score by Guy Klunecsek, lyrics by Michael Mattheus and traditional Chinese choreography by Miranda Chin.
- Playwrights' Center,
Minneapolis, Minnesota
\$25,000
Toward the costs of a collaboration with Spiderwoman Theater & In the Heart of the Beast to create "Voices from the Criss Cross Bridge," written by Lisa Mayo, Gloria and Muriel Miguel of Spiderwoman Theater, with director Linda Chapman and designers Ralph Lee and Sandy Spieler.
- The Rachel Rosenthal Company,
Los Angeles, California
\$10,000
Toward the costs of the world premiere of "Zone," conceived by Rachel Rosenthal with lighting design by Kevin Adams, choreography by Mehmet Sander, and music by Amy Knoles.
- Redwood Cultural Work,
Oakland, California
\$25,000
Toward the costs of the commission and production of the New Spirituals Concert by composer Jacqueline Rago, Artistic Director Elizabeth Seja Min, and principal soloist Linda Tillery.

San Francisco Mime Troupe,
California
\$50,000
Toward the costs of the second phase of a project involving the Troupe's playwright Joan Holden, director Dan Chumley, playwright Mok Chiu Yu of the Hong Kong People's Theater, playwright Chung Chiao from the Tawan People's Theater, playwright Cheung Tat Ming of the Hong Kong School Drama Festival and playwright Simon Wong of the Theatre Workshop in Hong Kong

Sang-Froid,
New York, New York
\$25,000
Toward the costs of the production of "The Opium War," a music-theater work by writer Ana Maria Simo, composer Zeena Parkins and director Linda Chapman.

Santa Fe Symphony Orchestra & Chorus,
New Mexico
\$25,000
Toward the costs of the development and performance of a commissioned full symphony by poet Jimmy Santiago Baca, Spanish composer/soloist Felu Gasull and Venezuelan conductor Carmen Tellez.

Urban Bush Women,
New York, New York
\$35,000
Toward the costs of the production of "Bones and Ash," choreographed and directed by Jawole Willa Jo Zollar with text adapted by Jewelle Gomez from her novel The Gilda Stories and music by Toshi Reagon.

Village of Arts and Humanities,
Philadelphia, Pennsylvania
\$10,000
Toward the costs of the production of "North Philadelphia Mahabharata," a collaboration with playwright Stephen Sayre, artistic director Lily Yeh, director Jacqueline Yancey choreographer Lisa White and children and adults of North Philadelphia.

Music of the Americas
[1993 - \$225,000]
Toward the costs of collaborative residency programs for composers between Latin America and the United States

American Composers Orchestra,
Inc.,
New York, New York
\$75,000
Toward the costs of the 1994 season of "Sonidos de las Americas," a week-long festival celebrating the music of Mexico

Centro Cultural Ciudad de Buenos Aires,
Argentina
\$46,500
Toward the costs of a collaborative residency and exchange program for computer music composers at the Laboratorio de Investigacion y Produccion Musical

Dartmouth College,
Hanover, New Hampshire
\$3,958
Toward the costs related to facilitating Latin American participation in the conference "Music Technology and Post Modernism in Russia, Europe and the Americas" to be held in Bellagio, Italy

Stanford University,
California
\$49,400
Toward the costs of a collaborative residency and exchange program for computer music composers at its Center for Computer Research in Music and Acoustics

University of California,
San Diego
\$50,000
Toward the costs of a collaborative residency and exchange program for computer music composers at its Center for Research in Computing and the Arts

National Assembly of State Arts Agencies,
Washington, D C
\$25,000
Toward the costs of its Wingspread Policy Development Retreat and the national teleconference component of its Multi Year Planning and National Dialogue Process

National Cultural Alliance,
Washington, D C
\$25,000
Toward the costs of its national campaign for expanding public awareness of the critical role of the arts and humanities in the US (Also listed under division's guideline Extending International and Intercultural Scholarship, for a total of \$50,000)

National Video Resources,
New York, New York
[1993 - \$1,000,000, in addition to remaining funds from prior year appropriations]
Toward the costs of increasing public access through videocassette to outstanding cultural, educational, and documentary film and video materials

Network of Cultural Centers of Color,
New York, New York
\$100,000
Toward its direct costs in 1993 for production and touring

New York University,
New York
\$100,000
Toward the costs of an international conference and film festival "Black Cinema A Celebration of Pan-African Film."

People for the American Way,
Washington, D C
\$75,000
Toward the third-year costs of its Artsave project.

People's Theatre Coalition (Life on the Water),
San Francisco, California
\$25,000
Toward the costs of the "Free Idea Zone Radio Project" in Banff

Tamouz Productions, Inc
New York, New York
\$12,500
Toward the costs of a video documentary, "Life on the Ethnic Fault Line" (Also listed under the division's Intercultural Film and Video program, for a total of \$25,000)

Thapong Artists International Festival,
Gaborone, Botswana
\$20,000
For travel funds for international artists to attend its artist workshop in Gaborone

Ukiah Players Theatre,
California
\$40,000
Toward the costs of the Mendocino People's Portrait Project

U S -Mexico Fund for Culture,
Mexico City, Mexico
[1993 - \$400,000, in addition to remaining funds from prior year appropriations]
Toward the costs of a program for collaboration, exchange, and interaction between US and Mexican artists and scholars, in partnership with the Bancamer Cultural Foundation and Mexico's National Fund for Culture and the Arts

Walker Art Center,
Minneapolis, Minnesota
\$50,000
Toward the costs of its Extended Artists' Residence Program.

Washington Drama Society, Inc.,
Washington, D C
\$50,000
Toward the costs of commissioning, developing, and producing plays in conjunction with the Cultural Diversity Program at Arena Stage

World Music Productions,
Brooklyn, New York
\$30,000
Toward the costs of initiating the African distribution component of its radio series, Afropop Worldwide

**FORTIFYING CIVIL SOCIETIES
THROUGH THEIR CULTURAL
INSTITUTIONS**

American Academy of Arts and Sciences,
Cambridge, Massachusetts
\$200,000

Toward the costs of a two-year study of the application of the concept of "social capital" to three domestic policy areas. (Joint grant with Equal Opportunity, for a total of \$250,000.)

Center for Transcultural Studies (formerly Center for Psychosocial Studies),
Chicago, Illinois
\$50,000

Toward the costs of a project on the organization of social and cultural criticism in contemporary China.

International Council of Museums,
Paris, France
\$25,000

Toward the costs of a meeting of Arab museum directors.

National Humanities Center,
Research Triangle Park, North Carolina
\$57,200

Toward the costs of the Latin American civil society project.

Northwestern University,
Evanston, Illinois
\$15,000

Toward the costs of a conference on African radio broadcasting at its Institute for Advanced Study and Research in the African Humanities.

The Project on Religion and Human Rights,
New York, New York
\$20,000

Toward the costs of an interdisciplinary study that will investigate issues of religion and human rights.

Strengthening African Museums [1992 - \$250,000, in addition to remaining funds from prior appropriations]

Toward the costs of fostering a set of initiatives that will aid civil society-building activities by African museums.

Social Science Research Council,
New York, New York
\$30,000

Toward the costs of the exhibition and outreach component of the African Archives and Museums Project.

Southern Africa Development Coordination Conference Association of Museums,
Windhoek, Namibia
\$46,000

Toward the costs of a feasibility study on the establishment of a program to train museum educators in southern Africa.

Strengthening African Publishing [1993 - \$120,000]

Toward the costs of securing and strengthening the activities of indigenous African publishers.

African Books Collective, Ltd.,
Oxford, England
\$100,000

Toward the costs of the compilation and distribution of its current and backlisted publications of educational, literary, and scholarly value.

African Publishers Network (APNET),
Harare, Zimbabwe
\$20,000

Toward the costs of planning a training program for African publishers, assessing inter-African trade, and improving communication among African publishers.

\$17,000

Toward the costs of its participation in the African Studies Association's 1993 Annual Meeting, and in meetings with World Bank representatives on African publishing issues.

Ranfurly Library Service,
London, England
\$25,000

Toward the costs of purchasing and distributing educational books on publishing to small African publishers throughout Africa.

Southern African Book Fair Trust,
London, England
\$20,000

Toward the costs of (1) preparing educational materials for a Book in a Day Workshop to be held at the Zimbabwe International Book Fair, and (2) establishing a North-South Travel Fund in order to facilitate African publishers' travel on that continent and between Africa and the North.

State University of New York at Buffalo
\$32,000

Toward the costs of its publications, research projects, and other activities related to indigenous publishing in African and other developing countries, for use by the Bellagio Publishing Network Research and Information Center.

Foundation-administered project
\$10,000

Toward the administrative costs of the program.

Strengthening African Radio [1993 - \$250,000]

Toward the costs of fostering a set of initiatives that will aid civil society-building activities by African radio broadcasters.

Understanding Diversity in Muslim Societies [1993 - \$250,000]

Toward the costs of fostering a set of activities in Muslim societies where issues of pluralism and diversity are the subject of public and policy discussions.

University of Pittsburgh,
Pennsylvania
\$12,000

Toward the costs of seminars on culture and development at its College of General Studies' International Center for Culture and Development.

Videazimut,
Montreal, Canada
\$15,000

Toward the costs of the 1994 international symposium in New Delhi, "New Technologies and Democratic Communications: Implications, Impact and Strategies for Appropriation." (Also listed under the division's guideline Increasing Artistic Experimentation Across Cultures, for a total of \$30,000.)

Foundation-administered project
\$50,000

Toward half of the costs of a series of meetings on "Pluralism and Its Cultural Expressions," jointly sponsored by the Aga Khan Trust for Culture, and expenses of independent follow-up activities by the Foundation.

**UNDERSTANDING DIVERSITY
IN CHANGING SOCIETIES:
BUILDING MODELS AND
STRUCTURES FOR CHANGE**

The Common Enterprise/PACT [1993 - \$1,230,000]

Toward the costs of identifying, supporting, and strengthening partnerships within communities or across communities that address conditions of conflict or tension through policy-oriented, culturally situated, or other on-the-ground projects.

Tucson Community Foundation,
Arizona
\$30,000

Toward the costs of a small grants program designed to facilitate community dialogue on the issue of censorship.

University of Arizona,
Tucson
\$33,000

Toward the costs of producing and cablecasting a staged reading of "The Shadow Box" and hosting a post-performance panel discussion.

Foundation-administered project
\$143,500

Toward administrative costs.

Equal Opportunity Grants

The Equal Opportunity division seeks to assure full participation of minorities in American life. In attacking persistent poverty in urban America, it supports activities in four categories: programs of planning and action in a few selected cities, national initiatives for community economic development, research and policy analysis, and research and action to strengthen basic skills and family support. To protect basic rights, the division supports litigation and advocacy, voter registration and education, and related research and policy analysis.

EQUAL OPPORTUNITY FOR THE URBAN POOR

American Academy of Arts and Sciences,
Cambridge, Massachusetts
\$50,000

Toward the costs of a two-year study of the application of the concept of "social capital" to three domestic policy areas. (Joint grant with Arts and Humanities, for a total of \$250,000.)

Center on Budget and Policy Priorities,
Washington, D.C.
\$50,000

Toward the costs of assembling a multi-phase communications plan to increase public support and improve the policymaking climate for constructive approaches to building income security, encouraging work and education, and strengthening families.

Children's Defense Fund,
Washington, D.C.
[1993 - \$500,000, in addition to remaining funds from prior year appropriations]
To continue core support for its efforts to improve public policies affecting children.

[1993 - \$500,000, in addition to remaining funds from prior year appropriations]
To continue the organization and implementation of its Black Community Crusade for Children.

City Parks Foundation,
New York, New York
\$150,000

Toward a training program that will guide welfare recipients toward becoming productive members of the work force while helping to maintain city park land.

Coalition of Community Foundations for Youth
[1992 - \$520,000]

To strengthen the role of community foundations in improving local services and public policies for children.

Arizona Community Foundation,
Phoenix
\$20,000

Toward the costs of evaluating its system reform project, "Partnership for Children."

Greater Kansas City Community Foundation,
Missouri
\$500,000

For providing community foundations with technical assistance toward intensification of their efforts—locally and collectively—to improve the conditions of disadvantaged children in their communities and across the country.

Columbia University,
New York, New York
\$50,000

Toward the costs of an ethnographic study of inner-city youth employed in the low-wage service sector of Harlem in New York City, and Oakland, California.

Community Development Initiatives
[1993 - \$1,863,200]

To continue support for the efforts of community development corporations in helping inner-city communities achieve sustainable social and economic self-sufficiency through development of local leadership and investment in tangible capital assets.

The Enterprise Foundation,
Columbia, Maryland
\$150,000

To provide support for community development corporations in helping inner-city communities achieve sustainable social and economic self-sufficiency through development of local leadership and investment in tangible capital assets.

\$591,000
To provide operational support for the NCDI.

Local Initiatives Managed Assets Corporation,
New York, New York
\$66,000
To provide operational support for the NCDI.

Local Initiatives Support Corporation,
New York, New York
\$525,500
To provide operational support for the NCDI.

\$250,000
To provide support for community development corporations in helping inner-city communities achieve sustainable social and economic self-sufficiency through development of local leadership and investment in tangible capital assets.

Foundation-administered project
\$280,728
To provide support for community development corporations toward catalyzing strategic growth in the resources available for local community development corporation activities.

Community Planning and Action Program
[1993 - \$2,000,000, in addition to remaining funds from prior year appropriations]
To provide terminal support for community planning and action projects dedicated to reducing persistent poverty and for a national network of community-based initiatives focused on informing policymakers about urban poverty strategies.

Greater Washington Research Center,
Washington, D.C.
\$350,000
Toward the final costs of its development and operation of projects dedicated to reducing persistent poverty in the Washington, D.C. area.

Partnership for Hope,
San Antonio, Texas
\$500,000
Toward the final costs of its development and operation of projects dedicated to reducing persistent poverty in the San Antonio area.

Piton Foundation,
Denver, Colorado
\$350,000
Toward the final costs of its development and operation of projects dedicated to reducing persistent poverty in the Denver area.

Urban Strategies Council,
Oakland, California
\$600,000
Toward the final costs of its development and operation of projects dedicated to reducing persistent poverty in the Oakland area.

\$200,000
Toward the final costs of the National Community Building Network, a network of community-based initiatives focused on informing policymakers about urban poverty strategies.

Corporation for Supportive
Housing,
New York, New York
\$65,000
Toward the costs of a study to test the feasibility of an Employment Demonstration Project for the homeless.

Council for Community-based
Development,
Washington, D.C.
\$4,000
Toward the costs of its 1993 general operations.

Expanded Child Care Options
[1990 - \$2,100,000, in addition to
remaining funds from prior year
appropriations]
To amend prior support for a multi-year demonstration and evaluation of two alternative child care support systems for low-income families.

Foundation-administered project
\$70,725
To provide terminal support toward the costs of a multi-year demonstration of two alternative child care support systems for low-income families. (Also listed under this guideline, for a total of \$310,725.)

Greater Kansas City Community
Foundation,
Kansas City, Missouri
\$800,000
To strengthen the role of community foundations in improving local services and public policies for children.

Harvard University,
Cambridge, Massachusetts
\$31,000
Toward the costs of research on the value of the General Equivalency Diploma in furthering labor market prospects of those who fail to complete high school.

Housing Partnership
Development Corporation,
New York, New York
\$100,000
Toward the costs of a planning project to test the feasibility of using New York City's competitive contracting system to generate new employment opportunities for the homeless.

Human Capital
[1991 - \$275,800, in addition to
remaining funds from prior year
appropriations]
To develop a cohort of young, minority scholars concerned with public policy analysis and the study of persistent poverty and the underclass.

University of Minnesota,
Minneapolis
\$125,800
To develop a cohort of young, minority scholars concerned with public policy analysis and the study of persistent poverty and the underclass.

Johns Hopkins University,
Baltimore, Maryland
\$50,000
Toward the costs of a study of the long-term effects of housing assistance on recipients.

Manpower Demonstration
Research Corporation,
New York, New York
\$54,744
Toward the costs of a report on lessons learned about unpaid work experience.

\$64,000
Toward the costs of explorations into the linkages between community/economic development and employment training.

\$200,000
Toward the costs of the first phase of an evaluation of the Career Academics.

\$125,000
Toward the costs of a study, "The Experiences of Welfare Recipients Who Would Exceed a Two-Year Welfare Time Limit."

Morehouse College,
Atlanta, Georgia
\$10,000
Toward the costs of a national conference honoring the 50th anniversary of the publication, An American Dilemma: The Negro Problem and Modern Democracy, by Gunnar Myrdal.

National Puerto Rican Coalition,
Washington, D.C.
\$78,600
Toward the costs of its project, "A Research Advocacy and Policy Analysis Strategy to Address the Needs of the Puerto Rican Community in the United States."

New Hope Project, Inc.,
Milwaukee, Wisconsin
\$150,000
Toward the operation program costs of the start-up of a three-year demonstration project aimed at poor adults and the role of community service jobs in a work-based strategy.

The Philanthropic Initiative,
Boston, Massachusetts
\$60,000
Toward the costs of a study to survey, collect, and summarize available knowledge about contaminated industrial and commercial sites and facilities in the U.S. that are located in or near city neighborhoods already experiencing economic and social distress.

Public/Private Ventures,
Philadelphia, Pennsylvania
\$128,000
Toward the costs of an initiative that explores possible career ladders through secondary market jobs for low-skilled youth and young adults.

The Surdna Foundation,
New York, New York
\$200,000
Toward the administrative and program costs of the Comprehensive Community Revitalization Program in the South Bronx.

Tides Foundation,
San Francisco, California
\$10,000
Toward the costs of the Grantmakers' Income Security Task Force in educating the public about income-security issues.

University of Georgia Research
Foundation,
Athens
\$53,000
Toward the costs of a supplemental telephone survey being conducted as part of the Multi-City Study of Urban Inequality.

University of Michigan,
Ann Arbor
\$50,000
Toward the costs of developing and pilot testing a major longitudinal study of the entrepreneurial experience in the United States.

School Reform Grants

Urban Institute,
Washington, D C
\$25,000

Toward the costs of including state-level participants in its conference, "Self-Sufficiency for the Low-skilled in Today's Labor Market? A Reality Check."

Urban Strategies Council,
Oakland, California
\$100,000

Toward the costs of a nine-month planning process for a National Community Building Support Center

Foundation-administered project
\$240,000

To provide terminal support toward the costs of Expanded Child Care Options (ECCO), a multi-year demonstration of two alternative child care support systems for low-income families (Also listed under this guideline, for a total of \$310,725)

PROTECTING BASIC RIGHTS

Mexican American Legal Defense and Educational Fund (MALDEF),
Los Angeles, California
\$50,000

Toward (1) its establishment of a South Central Los Angeles Leadership Development Program and (2) its Rebuild Los Angeles efforts

National Asian Pacific American Legal Consortium,
Washington, D C
\$200,000

Toward the costs of its litigation, advocacy, and technical assistance activities

The Foundation supports a limited number of programs to improve public education in poor communities for at-risk children and to help these young people succeed in school

Brown University,
Providence, Rhode Island
\$150,000

For use by the ATLAS Communications Project toward the work of its Design and Development Working Party

International Education Consortium,
St Louis, Missouri
\$50,000

Toward the continuation of a teacher training program to strengthen international education in the St. Louis secondary schools

Collaboratives for Humanities and Arts Teaching (CHART) [1993 - \$1,300,000, in addition to remaining funds from prior year appropriations]

To provide the tenth and final year of support for the national CHART network of teacher-centered projects, which promotes arts and humanities education in public schools, and to disseminate the lessons learned about promising approaches to curriculum and instruction.

Los Angeles Educational Partnership,
California
\$75,000

To enable the Humanities model to be instilled as a mechanism for curriculum change and restructuring in Los Angeles Unified School District high schools

Bryn Mawr College,
Pennsylvania
\$565,000

For continued administration, evaluation, and programming of the CHART network.

Michigan Council for the Humanities,
East Lansing
\$50,000

Toward continuation of the Renaissance Outreach Alliance for the Detroit-area Schools (ROADS)

Connecticut Humanities Council,
Middletown
\$125,000

In support of the Connecticut Humanities Alliance

Public Education Coalition,
Denver, Colorado
\$125,000

In support of the SUMMIT (Scholars United for Multicultural Inquiry in Teaching) CHART initiative in the Denver-area public schools

Hispanic Culture Foundation,
Albuquerque, New Mexico
\$59,600

In continued support of the New Mexico CURRENTS program.

San Francisco Education Fund,
California
\$50,000

In final support of the Humanities, Education, Research, and Learning Development (HERALD) project.

South Carolina Humanities Council, Columbia \$50,000
In support of the Rural Education Alliance for Collaborative Humanities (REACH) program.

University of Arkansas, Little Rock \$50,000
For use by its Arkansas International Center in continued support of an interdisciplinary teacher training program in global education.

Foundation-administered project \$105,500
For the costs of producing a one-hour videotape highlighting CHART teachers and processes.

The College Board (College Entrance Examination Board), New York, New York [1992 - \$2,000,000]
To prepare at-risk minority students in middle schools to complete academically challenging mathematics courses, particularly those needed for college enrollment and employment.

The College Board, New York, New York \$600,000
For contribution by the Foundation toward the first year of the Saturday Academies component of the Board's Equity 2000 program.

Editorial Projects in Education, Washington, D.C. \$15,000
Toward its costs in publishing in book form a three-part series of articles, entitled "From Risk to Renewal," which recently appeared in Education Week.

ETV Endowment of South Carolina, Spartanburg \$50,000
For use by South Carolina ETV toward production costs of the television series "Learning Matters for 1993."

Greater Kansas City Community Foundation, Missouri \$22,000
For developing a media campaign focused on early childhood immunization for use by the Coalition of Community Foundations for Youth, and teaching community foundations how to implement it.

Harvard University, Cambridge, Massachusetts [1993 - \$633,333]
To support the final three years of the Performance Assessment Collaboratives for Education program (PACE), a multi-site demonstration and evaluation of new modes of student assessment.

\$18,400
For publication of a symposium on equity and educational assessment by the Harvard Educational Review.

Institute for Educational Leadership, Inc., Washington, D.C. \$100,000
For use by a consortium comprising the Institute, the McKenzie Group, and The Joint Center for Political and Economic Studies in support of a national training program for emerging and non-traditional school superintendent candidates.

\$63,072
For use by the Institute to develop a planning framework for curriculum reform and professional development in the District of Columbia Public Schools.

Manchester Craftsmen's Guild, Pittsburgh, Pennsylvania \$25,000
Toward the costs of its Apprenticeship Training Program (Joint grant with Arts and Humanities, for a total of \$50,000.)

Modernizing Educator Training and Development [1991 - \$150,000]
To provide implemented approaches to educator professional development aimed at enhancing the academic instructional and leadership skills of educators in elementary and middle schools serving at-risk children.

Foundation-administered projects \$12,000
For administrative costs associated with the Foundation's exploration of educator professional development issues.

\$51,000
For costs of a Foundation-commissioned set of papers on educator professional development issues.

\$50,000
For administrative costs associated with exploration of creating a cable television channel dedicated to the training and professional development of K-12 educators.

\$3,800
For costs of a meeting to discuss the concept of an intermediary organization to assist school districts with their professional development reform efforts.

National Governors' Association Center for Policy Research, Washington, D.C. \$125,000
Toward general costs for 1993-1994.

\$27,500
Toward the costs of commissioning three policy papers designed to increase governors' awareness and understanding of children's and youth's social and educational developmental needs.

Spreading the Comer School Development Program and Philosophy [1993 - \$2,000,000, in addition to remaining funds from prior year appropriations]
To expand the number of public schools utilizing the school improvement approach developed by Dr. James P. Comer and to expose higher education institutions and education policymakers to his philosophy.

Association for Supervision and Curriculum Development, Alexandria, Virginia \$70,000
Toward the costs of a national interactive satellite broadcast incorporating the Comer School Development Program ideas and videos in conjunction with the Association's annual conference in March 1993.

Foundation for the National Capital Region, Washington, D.C. \$161,790
Toward the costs of a project to implement the Comer School Development Program in the District of Columbia Public Schools.

KQED, Inc., Los Angeles, California \$48,500
For use by KQED and its co-production partner, Strikes Twice Productions, toward costs of an educational outreach project based on Maggie's American Dream: The Life and Times of a Black Family, by Dr. James P. Comer.

New Orleans Public Schools, Louisiana \$67,700
Toward the costs of an educational partnership with Southern University at New Orleans to implement the Comer School Development Program and to improve pre-service teacher preparation.

Southern University at New Orleans (SUNO), Louisiana \$132,300
Toward the continued costs of an educational partnership with the New Orleans Public Schools to implement the Comer School Development Program and to improve pre-service teacher preparation at SUNO.

Yale University, New Haven, Connecticut \$1,060,450
For use by the Yale Child Study Center in continued support for spreading the Comer School Development Program and philosophy.

Foundation-administered projects
\$11,000
For costs associated with producing a new overview videotape for the video series on the Comer School Development Program.

\$100,000
For the costs of a campaign to bring the philosophy and work of Dr James P Comer to the attention of education policymakers and opinion leaders throughout the country

Texas Interfaith Education Fund,
Austin
*[1993 - \$1,200,000, in addition to remaining funds from prior year appropriations]
To accelerate the pace of local school reform by strengthening the capacity of parents and community organizations to act as catalysis for change*

Training Education Leaders to Improve At-Risk Schools
*[1993 - \$350,000, in addition to remaining funds from prior year appropriations]
To complete support for the pilot development of summer academies that equip educators to meet the challenge of managing schools that serve at risk children.*

Michigan State University,
East Lansing
\$304,730
In support of the leadership academies it has developed and implemented through its relationship with the Michigan Partnership for New Education Academy

University of New Mexico,
Albuquerque
\$104,245
In support of its New Mexico Academy for School Leaders

\$198,160
Toward the continued costs to equip educators to meet the challenge of managing schools that serve at-risk children

\$31,800
Toward the costs of documenting and disseminating information regarding its Academy for School Leaders

United Negro College Fund,
New York, New York
\$100,000
Toward the costs of establishing a Policy Research Institute

University of Minnesota,
Minneapolis
\$25,000
For use by the Center for School Change to conduct a national survey of college education courses which help educators develop partnerships with parents and increase parent involvement in schools

University of Tennessee,
Knoxville
\$92,500
For use by its School of Education toward the creation of a "Network for Innovative Schools of Education."

Bellagio Study and Conference Center

The Foundation's Bellagio Study and Conference Center on Lake Como, Italy annually hosts approximately 30 conferences, almost half of which are selected competitively, the other half are organized by Foundation officers or grantees. These conferences are focused on topics of international importance. In addition, the Center hosts approximately 140 residents a year, also competitively selected, who come from around the world for periods of about four weeks and whose projects are expected to advance the individuals' fields of specialization.

1993 Conferences

AGRICULTURAL AND ENVIRONMENTAL SCIENCES

Ecotourism (February 5 to 8)—Dr Alberta Arthurs and Dr Al Binger, both of the Rockefeller Foundation
Participants considered the parameters within which tourism could evolve into a transformative development tool that provides local communities surrounding natural and built environments with a way of life that is culturally and environmentally sustainable. Further information: Dr Al Binger, Director for the Global Environment Division, Rockefeller Foundation.

Energy Strategies for the 21st Century (April 12 to 16)—Dr José Goldemberg, Universidade de São Paulo, Brazil
Participants discussed the likelihood of serious consideration and application of new types of energy supply (wind, photovoltaics, and so on), factors slowing energy conservation in developing countries, the feasibility of carbon taxes and tradable permits inside and across borders, ways to eliminate gas flaring and methane losses, and other issues. Further information: Dr José Goldemberg, Instituto de Eletrotécnica e Energia, Universidade de São Paulo, Av Prof Almeida Prado, 925, 05508 900 São Paulo, SP, Brazil.

European Foundations and Environment Issues (April 26 to 30)—Dr Giovanni Roggero Fossati, Fondazione San Paolo, Torino, Italy, and Dr Al Binger, Rockefeller Foundation
Officials from European foundations active in environment and development issues explored possibilities for improving collaboration, increasing effectiveness, and elaborating strategies that will enhance synergy between North and South on matters where there are profound differences. Further information: Dr Al Binger, Director for the Global Environment Division, Rockefeller Foundation.

Nomenclature of Sequenced Plant Genes (May 3 to 7)—Dr C A Price, Commission on Plant Gene Nomenclature of the International Society of Plant Molecular Biology, Waksman Institute, Piscataway, New Jersey
After months of discussion via electronic mail regarding the two models for establishing a common nomenclature for sequenced plant genes, participants convened at Bellagio to identify the relationships and possible disparities within and between these two models. Further information: Dr C A Price, Commission on Plant Gene Nomenclature, Waksman Institute, Piscataway, New Jersey, 08855-0759 USA.

Biotechnology for Integrated Pest Management (October 4 to 8)—Dr. Gary H. Toenniessen and Dr. Liz Evans, both of the Rockefeller Foundation

Experts from the integrated pest management community and the developers of biotechnology, two groups that normally have few opportunities to talk, met to discuss a range of topics, including the needs of integrated pest management in the field; relevant research and technical advancements in biotechnology; case studies of integrated pest management for developing-country crops; ecological considerations; and policy issues.

Further information: Dr. Gary H. Toenniessen, Deputy Director for Agricultural Sciences, Rockefeller Foundation

Donor Collaboration on Agenda 21 Research and Capacity-Building Initiatives (November 8 to 11)—Dr. Anne V. Whyte, International Development Research Centre, Ottawa, Canada and Dr. Kenneth Prewitt, Rockefeller Foundation

Participants from multilateral organizations, bilateral agencies, and private foundations met to review past experience in donor collaboration and current needs and gaps in the context of Agenda 21 implementation; the generally declining resources for international development; and the critical need for more effective resource allocation.

Further information: Ms. Brenda Lee Wilson, International Development Research Centre, P.O. Box 8500, Ottawa, Canada K1G 3H9

Application of Genetics and Biotechnology to the Characterization of Fungal Pathogens of Sorghum and Millet (November 15 to 19)—Dr.

Richard A. Frederiksen, Texas A&M University, College Station, Texas and Dr. John F. Leslie, Kansas State University, Manhattan, Kansas

Resistance to diseases of sorghum and millet can now be evaluated to estimate pathogen population stability and durability of the corresponding resistance was the focus of this meeting made up of scientists involved in developing the technologies, regional scientists from international centers, and scientists from developing countries.

Further information: Dr. Richard A. Frederiksen, Department of Plant Pathology and Microbiology, Texas A&M University, College Station, Texas 77843-2132 USA

Planning and Coordinating Committee for the Forum for Sustainable Development (December 6 to 7)—Pasquale

Pesce, Director, Bellagio Study and Conference Center

Participants met to further the planning for a partnership of foundations concerned with the environment and seeking ways to catalyze activities that could lead to a sustainable livelihood for all.

Further information: Mr. Pasquale Pesce, Director, Bellagio Study and Conference Center, Villa Serbelloni, Via Garibaldi 8, 22021 Bellagio (Como), Italy

CULTURAL STUDIES

Cultural Agency/Cultural Authority: Politics and Poetics of Intellectual Property in the Post-Colonial Era (March 8 to 12)—Professor Peter Jaszi, American University, Washington, D.C.; Dr. Nebila Mezghani, Faculty of Law and Political Science, Université de Droit, d'Économie et de Gestion, Tunis, Tunisia; and Dr. Martha Woodmansee, Department of English, Case Western Reserve University, Cleveland, Ohio

An international, interdisciplinary group of scholars and practitioners, representing the perspectives of both the developed and developing worlds, explored the concrete effects of the "authorship" construct; sketched out more rational and equitable alternatives for assigning authority over cultural productions; and inaugurated a new phase in an ongoing interdisciplinary discussion of the connections between critical theory and the law of intellectual property.

Further information: Professor Peter Jaszi, Washington College of Law, American University, 4400 Massachusetts Avenue NW, Washington, DC 20016-8084 USA

Recasting Intellectual History: African-American Cultural Studies (May 24 to 28)—Dr. Henry Louis Gates, Jr., Harvard University, Cambridge, Massachusetts

Practitioners of the disparate approaches to African-American intellectual history and cultural studies met to discuss ways to strengthen scholarship in African-American intellectual history; move the field closer to the center of American intellectual history; and provide fresh perspectives on some of the dilemmas facing Black intellectuals today.

Further information: Dr. Walter A. Jackson, School of Social Sciences, Institute for Advanced Study, Princeton, New Jersey 08540 USA

Gender and War (August 9 to 13)—Dr. Miriam Cooke and Dr. Alex Roland, both of Duke University, Durham, North Carolina

Scholars whose primary focus is war, and who are beginning to consider implications for the military if the numbers of women increase significantly, met with women's studies scholars who find war to be a new prism on the study of gender, and together they reviewed assumptions; directed their attention to the relationship between war and gender; and shared ideas seldom explored by those outside their fields.

Further information: Dr. Miriam Cooke, Asian and African Languages and Literatures, Duke University, Durham, North Carolina 27708-0414 USA

The Internationalization of Civil Society and the Public Sphere (August 23 to 27)—Dr. Benjamin Lee, Center for Psychosocial Studies, Chicago, Illinois

Scholars, writers, and intellectuals from Canada, China, Hong Kong, India, Russia, Taiwan, and the United States examined the relevance of the concepts of civil society and the public sphere to contemporary conditions and trends in their respective societies.

Further information: Dr. Benjamin Lee, Center for Psychosocial Studies, 233 N. Michigan Avenue, Suite 2227, Chicago, Illinois 60601 USA

Civil Society in the Middle East (November 29 to December 5)—Dr. Farhad Kezemi, New York

University, New York City and Dr. Augustus Richard Norton, Boston University, Massachusetts

This project, aimed at putting the study of civil society on the agenda of Middle East scholars, policymakers, and opinion leaders, gathered experts from within and outside the Middle East to produce a collection of papers that would serve as a guide to the civil societies of the region.

Further information: Dr. Farhad Kezemi, Department of Politics, New York University, 715 Broadway, 4th Floor, New York, New York 10003 USA

Domestic Institutions, Free Trade, and the Pressures for National Convergence: U.S., Europe, and Japan (February 22 to 26)—Dr. Suzanne Berger and Dr. Ronald Dore, both of the Massachusetts Institute of Technology, Cambridge, Massachusetts

Scholars and practitioners working on the political economies of the United States, Europe, and Japan compared the changes in their societies that may or may not be proceeding in response to changes in the international economy and to pressures brought to bear in international negotiations for the convergence of national institutions toward common models.

Further information: Dr. Suzanne Berger, Department of Political Science, E53-401, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139 USA

Real Wages, Migration, and Labor Market Integration in the 19th and 20th Centuries (June 14 to 18)—Dr. Timothy Hattan, University of Essex, England; Dr. Jeffrey G. Williamson, Harvard University, Cambridge, Massachusetts; and Dr. Vera Zamagni, University of Bologna, Italy
Participants met to coordinate research on international labor market integration from the mid-19th century to World War II and to learn how barriers to the mobility of labor and capital have recently been reduced to levels that characterized the late 19th century in Europe and Australia. Further information: Dr. Jeffrey G. Williamson, Department of Economics, Harvard University, Cambridge, Massachusetts 02138 USA

Alternative Approaches to the Greening of Economics (August 2 to 8)—Dr. Stephen A. Marglin, Harvard University, Cambridge, Massachusetts

Conferees explored the potential and limitations of economics as a tool for addressing ecological issues, in particular the relationship between ecology and modernization as well as the general supposition that there is only one correct approach to "development."

Further information: Dr. Stephen A. Marglin, Department of Economics, Harvard University, Littauer Center 221, Cambridge, Massachusetts 02138 USA

INTERNATIONAL RELATIONS

Reexamining Foreign Aid: Crisis in Development Cooperation (July 12 to 15)—John W. Sewell, Overseas Development Council, Washington, D.C.; John Howell, Overseas Development Institute, London, England; and Maureen O' Neill, North-South Institute, Ottawa, Canada

Representatives from participating development research institutes in the major OECD aid donor countries analyzed the magnitude and nature of and response to the perceived crisis of confidence in foreign aid among the major donor countries.

Further information: Dr. Adrian P. Hewitt, Deputy Director, Overseas Development Institute, Regent's Circle, Regent's Park, London NW1 4NS, England

Strengthening Local Philanthropy (April 19 to 25)—Peter C. Goldmark, Jr., and Dr. Kenneth Prewitt, both of the Rockefeller Foundation
Conferees met to discuss how to provide the most effective assistance for the promotion of local philanthropy in developing regions; donors from North and South discussed the results of "development assistance" efforts as well as the reference points by which donors and nascent foundation-like organizations can best identify broad criteria and guidelines for objectives, structure, and process.

Further information: Ms. Ethel Rios de Betancourt, Puerto Rico Community Foundation, 1417 Royal Bank Center, Suite 1417, Hato Rey, Puerto Rico 00917 USA

Middle East Arms Control after the Israeli-PLO Agreement (December 13 to 17)—Geoffrey Kemp, Carnegie Endowment for International Peace, Washington, D.C.

Americans, Europeans, a Russian, and specialists from the Arab regions met to deepen their understanding of rival fears (threat perceptions) and possible solutions to security problems; explored regional security topics, the prospects for conflict and cooperation among Iran, Iraq, and the Gulf Arabs; and the prospects for arms limitations and confidence-building measures.

Further information: Mr. Chris Bicknell, Carnegie Endowment for International Peace, 2400 N Street NW, Washington, DC 20037 USA

LANGUAGE AND LITERATURE

Group of Donors Interested in African Publishing (February 13 to 16)—Dr. Alberta Arthurs and Cliff Chanin, both of the Rockefeller Foundation

This gathering, the fourth in a series on the challenge for books and publishers in Africa, explored the mission of the donor group, its extended activities, and defined a membership and advocacy role for the group as well as issues surrounding the management of the participating collaboration.

Further information: Mr. Cliff Chanin, Associate Director for Arts and Humanities, Rockefeller Foundation

Preserving the Intellectual Heritage (June 7 to 11)—Patricia Battin, Commission on Preservation and Access, Washington, D.C.

Scholars discussed possible collaboration among Americans and Europeans in the effort to preserve their collective intellectual resources printed on acid paper, and took decisive steps toward establishing a European commission on preservation and access.

Further information: Ms. Maxine Sitts, Program Officer, Commission on Preservation and Access, 1400 16th Street NW, Suite 740, Washington, DC 20036 USA

Literature, Ethnocentrism, and Pluralism: Comparative Literary History in the 21st Century (July 26 to 30)—Dr. Mario J. Valdes, University of Toronto, Canada
Experts on significant areas of literature which are nearly completely excluded from the mainstream of literature in the international community convened to discuss large international projects of collaborative research that could begin to redress the exclusion. Further information: Dr. Mario J. Valdes, President, International Coordinating Committee for Comparative Literary History, 14045 Roberts Library, University of Toronto, Toronto, Canada M5S 1A1

Pluralism and its Cultural Expressions: Journals of Opinion and the Civil Society (July 12 to 16)—Cliff Chanin and Dr. Alberta Arthurs, both of the Rockefeller Foundation
Editors of journals of opinion from Muslim societies and the United States met to exchange viewpoints of the civil society.

Further information: Mr. Cliff Chanin, Associate Director for Arts and Humanities, Rockefeller Foundation

MEDICAL AND POPULATION SCIENCES

Meeting Women's Needs for Post-Abortion Family Planning (February 1 to 5)—Katie McLaurin, International Projects Assistance Services (IPAS), Carrboro, North Carolina
IPAS's Technical Working Group on Post-Abortion Family Planning, a group of family planning, ob/gyn, women's health, policy, and research professionals from both developing and developed countries, met to formulate strategies and recommendations for delivering family planning services more effectively and safely to women who have had abortions.

Further information: Ms. Janie Benson, Director, Research and Evaluation, International Projects Assistance Services, 303 E. Main Street, P.O. Box 100, Carrboro, North Carolina 27510 USA

Children's Vaccine Initiative Ad Hoc Committee on an Investment Strategy for Measles Control (March 15 to 20)—Dr Scott B Halstead, Rockefeller Foundation, and Dr Bruce Gellin, Johns Hopkins University, Baltimore, Maryland

The Children's Vaccine Initiative, founded by the United Nations Development Programme, UNICEF, the World Health Organization, the World Bank, and the Rockefeller Foundation, convened an expert committee to review the state of the art of all aspects of measles control, emphasizing the need to both improve and expand the use of current live-attenuated measles vaccines and to support the development of a new measles vaccine

Further information: Dr Scott B Halstead, Deputy Director for Health Sciences, Rockefeller Foundation

Women's Health and Nutrition (May 17 to 21)—Dr Anne Tinker, World Bank, Washington, D C

Experts on women's health discussed the components of a "minimum package" of health services for women and girls and suggested mechanisms for the delivery of these services

Further information: Dr Anne Tinker, World Bank, 1818 H Street, S6-135, Washington, DC 20433 USA

Migration, Fertility, and National Identity (June 28 to July 2)—Michael S Teitelbaum, Alfred P. Sloan Foundation, New York City, and Dr Jay M Winter, Pembroke College, Oxford, England

A diverse group of specialists in demography, history, and political science/policy studies considered the intersections among fertility, migration, and national identity, particularly the political ramifications and causes of movements in fertility and migration.

Further information: Dr Jay M Winter, Pembroke College, Oxford, England

Strengthening Tropical Infectious Disease Research and Control (August 30 to September 3)—Dr Joseph A Cook, Edna McConnell Clark Foundation, New York City, Dr Robert S Lawrence, Rockefeller Foundation, and Denis Prager, John D. and Catherine T MacArthur Foundation, Chicago, Illinois

Participants met to discuss ways of accelerating the rate at which the burden of disease in the developing world can be reduced to the levels achieved in the industrialized countries, and formulated strategies to reset priorities for new research and marshal the political and economic support required to translate these priorities into effective action.

Further information: Dr Joseph A Cook, Director, Tropical Disease Research, Edna McConnell Clark Foundation, 250 Park Avenue, New York, New York 10177-26 USA

Panel on Population Policies (September 27 to October 1)—Maria de Lourdes Pintasilgo, Independent Commission on Population and Quality of Life, Paris, France

A committee of experts in governance, population policy practice and analysis, and gender concerns convened to analyze the interconnections between transition in national and international governance and the evolution of population policies

Further information: Mons Pierre de Senarclens, Executive Secretary, Independent Commission on Population and Quality of Life, 1, rue Moulins, 75732 Paris, France

Malaria and Ecosystems Historical Aspects (October 18 to 22)—Bernardino Fantini, Institut Louis Jeantet d' Histoire de la Médecine, University of Geneva, Switzerland

Scholars working on different aspects of the history of malaria, particularly the relationship between malaria and ecosystems, learned about approaches and sources used by those in other disciplines and made additions to the history of malaria that might aid modern malarology

Further information: Professor Mario Coluzzi, Istituto di Parasitologia, Università di Roma "La Sapienza," Via A Moro, 5, 00185 Rome, Italy

Bellagio Forum on Population and Development I (October 26 to 30)—Dr Steven W Sinding, Rockefeller Foundation

Participants in this first meeting in the series—population specialists and government actors—agreed on the importance of increasing resources in those program areas which have the greatest impact on family size—addressing unmet need, lowering infant and young child mortality, and increasing the enrollment and retention of girls in school.

Further information: Dr Steven W Sinding, Director for Population Sciences, Rockefeller Foundation

Bellagio Residents

AGRICULTURAL AND ENVIRONMENTAL SCIENCES

Mahdi Beshir (Sudan), University of Gezira, Wad Medani, Sudan.

A book, Seventy Years of Agricultural Research in Sudan, 1918-1988

Aggrey Ayuen Majok (Zimbabwe), University of Zimbabwe, Harare, and

Calvin W Schwabe (USA), University of California, Davis

A book, Pastoral Development in Africa. A Practical Paradigm for Local Action

ARTS

COMPOSERS

Jon H Appleton (USA), Dartmouth College, Hanover, New Hampshire

A song cycle, Canciones Hispanoamericanas

Chester Biscardi (USA), Sarah Lawrence College, Bronxville, New York.

A music composition, Cathedral for shō and string quartet

Tamar Diesendruck (USA), Pittsburgh, Pennsylvania.

A solo piece for contrabassist Andrew Kohn and a wind quintet for the Wisconsin Brass

John C Eaton (USA), University of Chicago, Illinois

A song cycle for mezzo-soprano and chamber orchestra, Songs of Desperation and Comfort

Daron Aric Hagen (USA), Bard College, Annandale-on-Hudson, New York.

A music composition, Symphony #3

Diego Luzuriaga (Ecuador),
University of Brasilia, Brazil
A chamber music piece commissioned by the Institut de Recherche et Coordination Acoustique Musique in Paris and a song cycle for soprano and cello based on his poetry

Edward J Miller (USA),
Oberlin College, Ohio
A double concerto for violin, piano, and orchestra.

Eric Moe (USA),
University of Pittsburgh,
Pennsylvania
A piano concerto, Kicking and Screaming

Ellen Taaffe Zwilich (USA),
New York, New York
Romance for violin and chamber orchestra commissioned by the Library of Congress, and Italian Fantasies Scenes from Bellagio, commissioned by the Long Beach (California) Symphony Orchestra.

VISUAL ARTISTS

Emma Amos (USA),
Rutgers University, New Brunswick, New Jersey
Artwork, "Reclaiming Presence, Images of Identity"

Doner Bell (USA),
Richmond, Maine
Paintings and photographs exploring the influence of the past on the present point of view

Charles Biasiny-Rivera (USA),
En Foco, Inc, Bronx, New York
Artwork, "Messages from God"

Diane Burko (USA),
Community College of Philadelphia, Pennsylvania
Paintings of Lake Como and the Bellagio landscape

James Herbert (USA),
University of Georgia, Athens
A film, Di Luce in Luce, to premier at the Metropolitan Museum of Art, New York.

Miriam Schapiro (USA),
New York, New York
A suite of paintings, "Russian and Soviet Women Artists and Me"

Judith Shea (USA),
New York, New York
Drawings for new sculptures

Esmé Thompson (USA),
Dartmouth College, Hanover, New Hampshire
Paintings in her "Dragonslayer" series

WRITERS

Cyrus Cassells (USA),
College of the Holy Cross, Worcester, Massachusetts
Two volumes of poems, God Will Wink His Eye and Soul Make a Path through Shouting

Ricardo M de Ungria (Philippines),
University of the Philippines, Manila
Two volumes of poetry, Nudes and Body English

Cornehus Eady (USA),
State University of New York, Stony Brook
A book of poetry, Kin

Patricia Goedicke (USA),
University of Montana, Missoula
A new collection of poems

Anthony Hecht (USA),
Georgetown University, Washington, DC
A crucial introduction for the New Cambridge Shakespeare Edition of the Sonnets and new poems

Francisco Sionil Jose (Philippines),
Solidaridad Publishing House, Manila
A novel, Viajero

Wesley McNair (USA),
University of Maine, Farmington
Two books of poems, My Brother Running and Love Handles

Rochelle Owens (USA),
University of Oklahoma, Norman
An experimental long poem, "Luca Discourse on Life & Death."

Nabaneeta Dev Sen (India),
Jadavpur University, Calcutta, India
A novel, The Wind beneath Her Wings

Mona Simpson (USA),
New York, New York
A novel, A Regular Guy

Richard G Stern (USA),
University of Chicago, Illinois
A novel.

Mark Strand (USA),
University of Utah, Salt Lake City
A book of poems

Wan Fang (People's Republic of China),
Central Opera Theater, Beijing
A play, Who Is Knocking at the Door?

Edmund White (USA),
Paris, France
A novel, The Farewell Symphony, and a collection of essays, The Burning Library

Rajiva Wijesinha (Sri Lanka),
University of Sri Jayawardenepura, Nugegoda, Sri Lanka
A novel, The Limits of Love

CULTURAL STUDIES

Eileen Blumenthal (USA),
Rutgers University, New Brunswick, New Jersey
A book, Asparas The Dancing Goddesses of Cambodia

Susan Buck Morss (USA),
Cornell University, Ithaca, New York
A study, "Ruins of the Recent Past. A Retrospective Study of Modern Mass-Cultural Forms in the U.S. and USSR."

Gunter Frankenberg (Germany),
J W Goethe University Frankfurt/Main, Germany
A book, Die Verfassung der zivilgesellschaft (The Constitution of Civil Society)

Janet Zollinger Giele (USA),
Brandeis University, Waltham, Massachusetts
A book, Modernization and Women's Multiple Roles An International Comparison

Carol J Greenhouse (USA),
Indiana University, Bloomington
A book, Life Terms Race and Gender in US Law, Literature and Everyday Life

M Annette James (USA),
University of Colorado, Boulder
A book, American Indian Identity and Survival in the 21st Century

Meenakshi Mukherjee (India),
Jawaharlal Nehru University, New Delhi
Two books, Women's Autobiographies in 19th-Century India and Realism and Reality Novel and Society in India

Peggy McIntosh (USA),
Wellesley College, Wellesley, Massachusetts
A monograph, Systems of Unearned Overadvantage

Anna Deavere Smith (USA),
San Francisco, California
A one-person theater show, "Twilight. Los Angeles, 1992" (working with Merry Conway)

Carroll Smith-Rosenberg (USA),
University of Pennsylvania, Philadelphia
A book, America Embodied, Constituting an American Identity

ECONOMICS

Georges Amar (France),
RATP (Metro/Bus System), Paris
A paper, "Pour une écologie urbaine des transports"

Michael Cernea (USA)
World Bank, Washington, DC
A concept paper on the social-cultural variables intrinsic to sustainable development.

Barbara Czarniawska-Joerges (Sweden),
Lund University, Sweden, and
Bernward Joerges (Germany),
Science Center Berlin, Germany
A study, "Managing the Big City The 21st Century Challenge to Technology and Administration."

Lawrence S Graham (USA),
University of Texas, Austin
A book, Restructuring Politics and Economics in Portugal, Brazil, and Mozambique The Politics of Transitions in the Lusophone World

Marco Orrù (Italy),
University of South Florida, Tampa
A monograph, Institutional Typologies of Capitalist Economies

Carl Tham (Sweden),
*Swedish International
Development Authority,
Stockholm.*
*A series of essays, In a Time of
Transition/At the Turning Point*

EDUCATION

Abdalla Uba Adamu (Nigeria),
Bayero University, Kano, Nigeria.
*A book, The Turn of the Tide:
Revolution in a Nigerian
University.*

Rubem A. Alves (Brazil),
*Universidade Estadual de
Campinas, São Paulo.*
*Scripts for videos concerned with
the relationship of art, science and
education.*

Kenneth A. Kavale (USA),
University of Iowa, Iowa City.
*A book, The Nature of Learning
Disabilities.*

Valerie E. Lee (USA),
*University of Michigan, Ann
Arbor.*
*A book, Is Separate Unequal?
Single-Sex and Coeducational
Schooling.*

ETHICS, PHILOSOPHY AND RELIGION

James P. Carse (USA),
New York University, New York.
*A book, O Thou I: The
Mysticism of Ordinary
Experience.*

Kathleen Marie Higgins (USA),
University of Texas, Austin.
*A book on Nietzsche's Gay
Science.*

Alwyn Marriage (UK),
*University of Surrey, Guildford,
England.*
*A book, The Priesthood of All
Believers.*

Diana Teitjens Meyers (USA),
University of Connecticut, Storrs.
*A book, Moral Subjectivity:
Psychoanalytic Feminism and
Moral Philosophy.*

Marvin M. Miller (USA),
*Massachusetts Institute of
Technology, Cambridge.*
*A monograph on the responsibility
of scientists to play an active role
in increasing the prospects for a
nuclear weapons-free world.*

Larry Minear (USA),
*Humanitarianism & War Project
Refugee Policy Group,
Washington, D.C., and
Thomas G. Weiss (USA),
Brown University, Providence,
Rhode Island.*
*A book, Qualities of Mercy:
Toward a Global Humanitarian
Community.*

Robert C. Solomon (USA),
University of Texas, Austin.
A book, A Theory of Emotions.

Sulak Sivaraksa (Thailand),
Bangkok, Thailand.
*A book, A Buddhist Vision for
Renewing Society.*

HISTORY

Donald H. Akenson (Canada),
*Queen's University, Kingston,
Canada.*
*A biography of Conor Cruise
O'Brien.*

Roderick Cave (UK),
*Nanyang Technological
University, Singapore.*
*A book, A History of the Golden
Cockerel Press, 1920 to 1960.*

Adam Czerniawski (UK),
*University of East Anglia,
Norwich, England.*
*The Polish version of his
autobiography, Scenes from a
Disturbed Childhood.*

Linda Hutcheon (Canada),
*University of Toronto, Ontario,
and
Michael Hutcheon, M.D.
(Canada),
Toronto Hospital, Ontario.*
*A book, Opera and Medicine:
Disease, Desire, Death.*

Tony Robert Judt (UK),
*New York University, New York,
New York.*
*A book, Europe, 1945-1989, for the
Oxford History of Europe series.*

David M. Katzman (USA),
University of Kansas, Lawrence.
*A book, A Full-Time Occupation:
African-American Workers in
Industrializing America.*

Robert O. Keohane (USA),
*Harvard University, Cambridge,
Massachusetts.*
*A book, Contested Commitments
in United States Foreign Policy,
1789-1989.*

Henning Köhler (Germany),
Freien Universität Berlin.
*A political biography of Konrad
Adenauer.*

Ruth Lapidot (Israel),
Hebrew University, Jerusalem.
*A study, "The Role of Autonomy
in Dealing with Disputes Involving
Claim to Self-Determination:
Potential and Limitations, with
Special Reference to the Camp
David Process."*

Gail Levin (USA),
*Baruch College and the Graduate
Center, City University of New
York.*
*A critical biography of Edward
Hopper, 1882-1967.*

Alexander G. McKay (Canada),
*McMaster University, Hamilton,
Ontario.*
*A book, The Flaming Fields:
Essays on the Social and Cultural
Experience of Greek and Roman
Campania.*

Betty Medsger (USA),
*San Francisco State University,
California.*
A book, Project Medburg.

Mark Stephen Micale (USA),
*Yale University, New Haven,
Connecticut.*
*A book, Charcot and the "Great
Neurosis": A Study in the
History of Medicine.*

Kishwar Naheed (Pakistan),
*President, Business and
Professional Women's Association,
Lahore, Pakistan.*
Her autobiography.

Robert O. Paxton (USA),
*Columbia University,
New York, New York.*
A book, Understanding Fascism.

Susan Taft Quinn (USA),
Brookline, Massachusetts.
A biography of Marie Curie.

Guadalupe Rivera Marin
(Mexico),
*Instituto Nacional de Estudios
Historicos de la Revolucion
Mexicana, Mexico City.*
*Part two of the biography of her
father, Diego Rivera, Un Rio:
Dos Riveras.*

Dan Vittorio Segre (Italy),
*Haifa University, Jerusalem,
Israel.*
*A biography of Baron Amedeo
Guillet d'Arbigny, The Private
War of L. Guillet.*

Richard Tilly (Germany),
University of Münster, Germany.
*A book, A History of the German
Banking System to 1914.*

Amb. Juan Gabriel Valdes (Chile),
*Ambassador from Chile,
Madrid, Spain.*
A book on the "Chicago boys."

Donald Weinstein (USA),
University of Arizona, Tucson.
*A book, Cavalleria Rusticana:
Chivalry and State Formation in
Renaissance Tuscany.*

Richard Whelan (USA),
Brooklyn, New York.
A biography of Alfred Stieglitz.

André Wink (USA),
University of Wisconsin, Madison.
*A book, Al-Hind: The Making
of the Indo-Islamic World,
Volume II.*

Gordon S. Wood (USA),
*Brown University, Providence,
Rhode Island.*
*A book, The Oxford History of the
Early Republic, 1789-1815.*

Arnold E. Davidson (Canada),
Duke University, Durham, North Carolina

A book, Margaret Atwood: Violation and Fictional Form.

Cathy N. Davidson (USA),
Duke University, Durham, North Carolina

A book, Photographs of the Dead.

Andrew P. Debicki (USA),
University of Kansas, Lawrence.
A book, A New History of Contemporary Spanish Poetry.

George Economou (USA),
University of Oklahoma, Norman.
A translation of the C version of William Langland's Piers Plowman.

Donald Fanger (USA),
Harvard University, Cambridge, Massachusetts.
A study, "Reconnections: Russian Prose and Its Contexts at and after the End of the Soviet Period."

John J. M. Figueroa (UK),
Warwick University, Milton Keynes, England.
A book on the poetry of Derek Walcott.

Diana Sorensen Goodrich (USA),
Wesleyan University, Middletown, Connecticut.
A book, The Wars of Persuasion: Canon and Conflict in the Readings of Sarmiento's 'Facundo'—A Study of Argentine Identity and Culture.

Frank Graziano (USA),
American University, Washington, D.C.
A book, Rosa de Lima: The Poetics and Politics of Sanctuary.

Heinrich M. Ickstadt (Germany),
John F. Kennedy Institut für Nordamerikastudien FU Berlin, Germany.
A book, American Modernism and the Tradition of the New.

Rachel Jacoff (USA),
Wellesley College, Massachusetts.
A book, Treating Shades as Solid Things: The Discourse of the Body in Dante's 'Divine Comedy'.

Aruna Sitiesh (India),
University of Delhi, India.
A book, Gender Concerns in Indian Fiction in Hindi and English by Women Writers since 1960.

Sarah Spence (USA),
University of Georgia, Athens.
A study of the female voice in the Aeneid and a book, Corpus: Body, Text and Self in 12th-century France.

Zdenek Stary (Czech Republic),
Charles University, Prague.
A book, In the Name of Function and Intervention.

John Van Sickle (USA),
Brooklyn College, New York.
A commentary and translation of the Latin poetry book of Giovanni Della Casa (1503-1556).

Margaret B. Wilkerson (USA),
University of California, Berkeley.
A biography of American playwright Lorraine Hansberry.

Yogendra Prasad Yadava (Nepal),
Tribhuvan University, Kathmandu, Nepal.
A study, "Current Issues in Nepalese Linguistics: Their Implications for South Asian Linguistics and Linguistic Theory."

Theodore Ziolkowski (USA),
Princeton University, New Jersey.
A book on literature and law, The Mirror of Justice.

LAW AND POLITICAL SCIENCE

Alfred C. Aman, Jr. (USA),
Indiana University, Bloomington.
A new, interdisciplinary journal, Indiana Journal of Global Legal Studies.

Richard Delgado (USA),
University of Colorado School of Law, Boulder, and
Jean Stefancic (USA),
University of Colorado, Boulder.
A review of articles dealing with Supreme Court rhetoric in law reform cases for a book, Failed Revolutions.

Barry Friedman (USA),
Vanderbilt University Law School, Nashville, Tennessee.
A book, Courts and Constitutionalism, Dialogue and Rights.

Wendy J. Gordon (USA),
Rutgers University, Newark, New Jersey.
A book, Morality, Economics, and the Author-Audience Relation: Theoretical Foundations of Intellectual Property Law.

Joel F. Handler (USA),
University of California, Los Angeles.
Two books, The Politics of Structure, and, with Yehekel Hasensfeld, The Organization of Welfare: Dilemmas and Solutions.

Yehekel Hasensfeld (USA),
University of California, Los Angeles.
Two books, Poverty, Welfare and Work: The Institutionalization of Moral Ambiguity, and, with Joel Handler, The Organization of Welfare: Dilemmas and Solutions.

Samuel Krislov (USA),
University of Minnesota, Minneapolis.
A monograph, The Politics of Product Standards: How Politics Shape Technology and Technology Can Define the Politics.

Ruth Lapidot (Israel),
Hebrew University, Jerusalem, Israel.
A book, Autonomy: Potential and Limitations.

Kenneth Guy Lieberthal (USA),
University of Michigan, Ann Arbor.
A book, China to the Edge.

Frank R. Parker (USA),
District of Columbia School of Law, Washington, D.C.
A book, Affirmative Action and Employment Discrimination.

MEDICAL AND POPULATION SCIENCES

Marlene Cedeño Collazos (Colombia),
Universidad del Valle, Cali, Colombia, and
Graciela Pardo de Velez (Colombia),
Hospital Universitario del Valle, Cali, Colombia.
A book, Research Methods in Health Sciences and Social Factors.

Dov Friedlander (Israel),
Hebrew University, Jerusalem.
A monograph on the emerging patterns of fertility transitions among ethnic and religious population subgroups of Israel.

J. Woodland Hastings (USA),
Harvard University, Cambridge, Massachusetts.
A monograph on bioluminescence, an account of the different groups of living organisms that possess the ability to emit visible light.

R. Brian Haynes, M.D. (Canada),
McMaster University, Hamilton, Canada.
Several articles in clinical epidemiology.

Basil S. Hetzel, M.D. (Australia),
Adelaide Medical Centre for Women & Children, North Adelaide, Australia.
A book, The Conquest of Iodine Deficiency: SOS for a Billion People.

Leila de Andrade Linhares Barsted (Brazil),
Cidadania, Estudo, Pesquisa, Informação e Ação (CEPIA), Rio de Janeiro, Brazil.
A study, "Reproductive Health and Individual Rights: A Required Articulation."

Stuart Maxell MacLeod, M.D. (Canada),
McMaster University, Hamilton, Ontario.
Essays for his series on future directions in medical education.

Kenneth McIntosh, M.D. (USA),
Children's Hospital, Boston, Massachusetts.
A book, Pediatric HIV Infection: A Guide for the Office and Clinic.

Michael S. Teitelbaum (USA),
Alfred P. Sloan Foundation, New York, New York, and
Jay M. Winter (USA),
Pembroke College, Cambridge, England.
A book, Fertility, Migration and National Identity, 1960-1990.

PSYCHOLOGY

Mihaly Csikszentmihalyi (USA),
University of Chicago, Illinois.
A book on the psychology of creativity.

Ajit Kumar Dalal (India),
University of Allahabad, India.
A book, Health Beliefs and Recovery from Tragic Life Events

Howard Gardner (USA),
Harvard Graduate School of Education, Cambridge, Massachusetts
A book on the psychological dimensions of leadership

William T. Garrison (USA),
Children's National Medical Center, Washington, DC
A book, When First We Practice to Deceive, a collection of essays combining the drama found in actual clinical cases with empirical and theoretical knowledge about a range of unusual childhood psychological disorders

Mardi J. Horowitz, M.D. (USA),
University of California, San Francisco
A book on the intersection of personality and the grief process

Milena Georgieva Kirova (Bulgaria),
University of Sofia, Bulgaria
A monograph, Psychoanalysis and Literature: Reading the Third Text

John Munder Ross (USA),
Cornell Medical College, New York, New York
A book, Men and Their Psychology

SCIENCE

Harald Atmanspacher (Germany),
Max Planck Institut für Extraterrestrische Physik, Garching, Germany
A paper, "Toward the Semantics of Complex Systems"

James L. Brewbaker (USA),
University of Hawaii, Honolulu
A book, Biometry on a Spreadsheet

Joseph Rexford Cobbinah (Ghana),
University of Ghana, Kumasi
A project report for his research program, "Development of Genetic Resistance in the Tropical Hardwood Iroko to the Damaging Insect Pest, Phytolyma lata."

SOCIOLOGY AND ANTHROPOLOGY

Sudhir Chandra (India),
South Gujarat University, Surat, India.
A book, Conjugal Relations and the Colonial Indian Law Interpenetrating Strategies of Social Revitalization

Martin Daly (Canada),
McMaster University, Hamilton, Ontario,
Rebecca Emerson Dobash (USA),
University of Wales, Cardiff,
Russell P. Dobash (USA),
University of Wales, Cardiff; and
Margo Wilson (Canada),
McMaster University, Hamilton, Ontario
A book, Love, Honor and Obey, or Else

Choong Soon Kim (USA),
University of Tennessee, Martin
A book, Japanese Industry in Dixie: An Anthropological Perspective

Howard Schuman (USA),
University of Michigan, Ann Arbor
Two books, Collective Memories and Collective Memory and Attitudes, Beliefs, and Behavior

TEAM RESIDENCIES

Don Belton (USA),
Macalester College, St. Paul, Minnesota,
Maria Cheng (USA),
University of Minnesota, Minneapolis,
David Alan Mura (USA),
St. Paul, Minnesota, and
Thomas Rose (USA),
University of Minnesota, Minneapolis
A collaborative art project exploring understanding grief and loss through individual identities

Eva Burch (USA),
New York, New York,
Robert Hollander (USA),
Princeton University,
New Jersey, and
Krzysztof Zanussi (Poland),
Director and Producer of Films, Warsaw
A collaborative project for an art film of Dante's Divine Commedia Inferno, Purgatorio, & Paradiso

Special International Initiatives and Special Interests Grants

Two relatively small grant programs are included in this section that support work in Special International Initiatives. International Security and International Philanthropy. Also included are Special Interests, and the Archives

International Security:

Limits the proliferation of nuclear and other weapons of mass destruction, encourages developing-world participation in international security deliberations, and broadens the international security agenda to include the environment and other global issues

Arms Control Association (ACA),
Washington, DC
\$50,000
Toward the costs of the distribution of ACA's publication, Arms Control Today, to scholars in the developing world.

The Asia Society,
New York, New York
\$25,000
Toward the costs of a Foundation-initiated project which will attempt to identify avenues of cooperation that might expand the limited options currently available in international negotiations to get North Korea to give up its nuclear weapons capability

Brown University,
Providence, Rhode Island
\$25,000
Toward the costs of a writing project to be conducted by the university's Center for Foreign Policy Development which will examine lessons from the Cuban missile crisis and their relationship to nuclear proliferation today

Carnegie Endowment for International Peace,
Washington, DC
\$12,000
Toward the costs of the participation of three Asian scholars in the Endowment's annual Nuclear Non-Proliferation Conference, November 17-18, 1993

Carnegie Mellon University,
Pittsburgh, Pennsylvania
\$100,000
Toward the costs of a two-day conference which will bring together senior U.S. and Indian leaders to examine issues related to technology transfer and weapons of mass destruction.

Center on Budget and Policy Priorities,
Washington, DC
\$25,000
Toward the costs of a research project on the true costs of nuclear forces, conducted by the Center's Defense Budget Project.

Centre for Policy Research,
New Delhi, India
\$99,000
For us study of India's internal and external security concerns

Centro de Investigaciones Europeo Latinoamericanas, Buenos Aires, Argentina
\$17,600
Toward the costs of an oral history of the Argentine nuclear plan.

Federation of American Scientists Fund, Washington, D C
\$56,532
Toward the costs of its Working Group Project on the Biological Weapons Convention.

\$27,300
Toward the costs of its Working Group Project on the Chemical Weapons Convention

Hellenic Foundation for Defense and Foreign Policy, Athens, Greece
\$35,100
Toward the costs of North African and Middle Eastern participation in its 1993 Halki International Seminar

Henry L. Stimson Center, Washington, D C
\$100,000
Toward the South Asia portion of its project to promote confidence-building measures in regions of tension.

\$100,000
Toward the costs of Southern participation in its project on Eliminating Weapons of Mass Destruction.

Human Rights Watch, New York, New York
\$370,000
To monitor and curtail transfers of weapons, assistance, and training to regimes or groups that grossly violate accepted human rights or the laws of war

Independent University, Washington, D C
\$25,000
Toward the costs of African and Asian participation in the First Moscow Conference on Chemical and Biological Disarmament, Demilitarization and Conversion, held May 19-21, 1993

Institute for Science and International Security, Washington, D C
\$100,000
Toward the costs of a program to provide educational training on nuclear and non-proliferation issues to future South African government officials

McGill University, Montreal, Canada
\$25,000
Toward the costs of a project to be conducted by TV Paul of the Department of Political Science, "Why Nations Renounce Nuclear Weapons"

Nautilus of America, Berkeley, California
\$40,000
Toward the costs of an initiative attempting to reopen nongovernmental communications between North Korea and the West, closed since North Korea's decision to withdraw from the Nuclear Non-Proliferation Treaty.

\$100,000
Toward the costs of the establishment of a Northeast Asia Peace and Security Network.

\$45,000
Toward the costs of the Northeast Asia Peace and Security Network.

Parliamentarians for Global Action, New York, New York
\$39,900
Toward the costs of travel to Africa and Asia to promote progress on a nuclear test ban and non-proliferation.

\$38,726
In support of its Multilateral Verification project.

The Regional Centre for Strategic Studies, Colombo, Sri Lanka
\$50,000
Toward the costs of the Centre's project, "Nuclear Non-Proliferation. Promoting the Dialogue between South Asia and Non-Regional Centres"

Sustainable Development Policy Institute, Islamabad, Pakistan
\$20,400
Toward the costs of a research project which would focus on peace, arms control, and security issues in Pakistan.

Amb. Shirin Tahir-Kheli, Bala Cynwyd, Pennsylvania
\$25,000
To conduct a study of the 1989 Gates mission to India and Pakistan.

University Notre Dame, South Bend, Indiana
\$50,000
Toward the costs of Middle Eastern and South Asian participation in a visiting fellows program, to be conducted in association with the Fourth Freedom Forum, Goshen, Indiana, which will explore economic sanctions and incentives as a means of halting the proliferation of nuclear weapons

International Philanthropy:

Establishes new or strengthens existing foundation-like organizations in the developing world

Development of Philanthropy Abroad
[1991 - \$1,500,000]
To launch a Rockefeller Foundation program that will aim to encourage and help develop philanthropy abroad.

\$100,000
Toward the costs of engaging a consultant to explore the possibilities for philanthropy in the developing world.

Foundation-administered project
\$65,000
Toward the costs of organizing an April 19-23, 1993 conference at Bellagio to discuss how the Foundation can best assist the promotion of local philanthropy in developing regions

University of Virginia, Charlottesville
\$48,300
Toward the costs of a study, to be led by John Redick of its Division of Continuing Education, on nuclear non-proliferation in Argentina and Brazil.

Verification Technology, Information Centre, London, England
\$31,000
Toward the costs of the initial phase of a project, "South Asian Transparency and the Military—Lessons from Europe"

Washington Council on Non-Proliferation, Washington, D C
\$25,000
Toward the costs of its Non-Proliferation Treaty seminar to be held in Kiev, Ukraine

Foundation-administered project
\$8,500
For costs of Foundation-initiated activities related to its International Security program's work in confidence-building and South-North dialogue in India

UNDERSTANDING DEVELOPMENT

Reflections on Development [1991-\$650,000, in addition to remaining funds from prior year appropriations]
To encourage outstanding third-world scholars to focus on the most recent lessons, experiences, and challenges to development in different developing countries, and in the process to foster greater collaboration among scholars across countries and regions

Council for the Development of Social Science Research in Africa (CODESRIA), Dakar Senegal
\$450,000
Toward the costs of the Reflections on Development fellowship program.

Special Interests, and the Archives:

These exceptionally meritorious projects do not fall within established program guidelines, and general support for the Rockefeller Foundation Archives.

American Academy of Arts and Sciences,
Cambridge, Massachusetts
\$75,000
Toward the costs of a series of training sessions for Arabs and Israelis in how to work together to maintain security and law and order.

American Foundation for AIDS Research,
New York, New York
\$50,000
Toward the costs of an evaluation of the New York City Needle Exchange Program for the prevention of AIDS in intravenous drug users.

Center for Reproductive Law & Policy,
New York, New York
[1993 - \$150,000]
To support its U.S. program of state-level litigation, legal analysis, and public education activities regarding abortion and other reproductive rights issues.

Council on Foundations,
Washington, D.C.
\$44,600
Toward its general operating expenses during 1993.

Funds for the Community's Future,
Washington, D.C.
\$50,000
Toward the costs of establishing a national office and replicating their community scholarship fund model in selected communities.

Harvard University,
Cambridge, Massachusetts
\$70,000
Toward the costs of a project on government efforts to address America's domestic problems.

Heritage College,
Toppenish, Washington
\$100,000
Toward the costs of developing a new curriculum in Indian child welfare.

Independent Sector,
Washington, D.C.
\$7,400
In general support of its 1993 activities.

KATHA,
New Delhi, India
\$45,000
*Toward publication costs of its health and environment quarterly magazine for children, *Tamasha!**

Maryland Public Television,
Owing Mills
\$45,000
Toward the costs of research and development for the "Women's Global Film Project."

National Charities Information Bureau, Inc.,
New York, New York
\$7,500
Toward its 1993-94 operating expenses.

The New York Community Trust,
New York
\$20,000
Toward the costs of hosting the Council on Foundations 1994 annual meeting.

New York Regional Association of Grantmakers,
New York
\$10,000
Toward general costs for 1994.

Overseas Development Council,
Washington, D.C.
[1993 - \$1,250,000, in addition to remaining funds from prior year appropriations]
To assist the Council, in the post-cold war era of the 1990s, to refocus its program of providing policymakers and the public with timely analysis of U.S. interests and responsibilities in developing countries.

The Philanthropic Initiative,
Boston, Massachusetts
\$75,000
In support of its 1993 activities.

Physicians for Human Rights,
Boston, Massachusetts
\$50,000
Toward the costs of its forensic investigations of war crimes in the former Yugoslavia.

Rockefeller Foundation Matching Gift Program
[1993 - \$150,000]

Social Science Research Council,
New York, New York
\$50,000
Toward the costs of a needs assessment and review of human sexuality research by its Sexuality Research Assessment Project.

United Nations,
New York, New York
\$150,000
Toward the costs of the Beijing World Conference on Women.

WGBH Educational Foundation,
Boston, Massachusetts
\$200,000
Toward the costs of a three-part television documentary "Africans in America."

Washington Center for China Studies, Inc.,
Washington, D.C.
\$225,000
To allow U.S.-based Chinese scholars in the social sciences and the humanities to return to China on short-term teaching and research fellowships, thereby strengthening professional and institutional ties between them and their colleagues in China.

Women & Foundations/Corporate Philanthropy,
New York, New York
\$25,000
Toward the costs of its 1993-94 general operating expenses.

Yale University,
New Haven, Connecticut
\$100,000
Toward a collaborative project with the John Innes Institute, Norwich, England, to explore the potential for blocking the transmission of viruses by aphids via the introduction of antiviral genes into the symbiotic bacteria of aphids.

ROCKEFELLER FOUNDATION ARCHIVES

Rockefeller University,
New York, New York
[1993 - \$500,000]
To cover operating costs associated with the preservation and continuing use for future generations of Foundation records deposited at the Rockefeller Archive Center.

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1993 Financial Report

Overall, 1993 was a good year for the Foundation's investment program. The new policy, approved by the Trustees in 1992, was fully implemented. The two most important changes were increases in the allocation to international assets and in the proportion of assets managed actively. These factors combined in 1993 with generally favorable capital markets to yield 16.4 percent total investment return, exceeding (1) the policy portfolio passive benchmark, (2) most institutional averages, and (3) most important for the longer term, inflation. The 1993 year-end market value of the Foundation's assets increased by 10.2 percent over the 1992 value.

An experimental 5 percent allocation to skill-based strategies—in which trading acumen, not the capital market, is the controlling factor for success—was implemented at midyear, and produced promising returns.

Thus, 1993 served as a test of the restructured policy approach and the skill initiative. No new programs were undertaken; asset allocation percentages were stabilized; and investment manager turnover was minimal. Although the viability of a long-term investment policy cannot be evaluated on the basis of a single year's data, the results recorded in 1993 suggest that the new policy may be better placed than its predecessor to achieve the financial objectives of the Foundation under current conditions. Moreover, the returns from the skill sector suggest that strategies other than those which depend on systematic capital market exposure can serve as a permanent part of the investment program.

Financing Activities

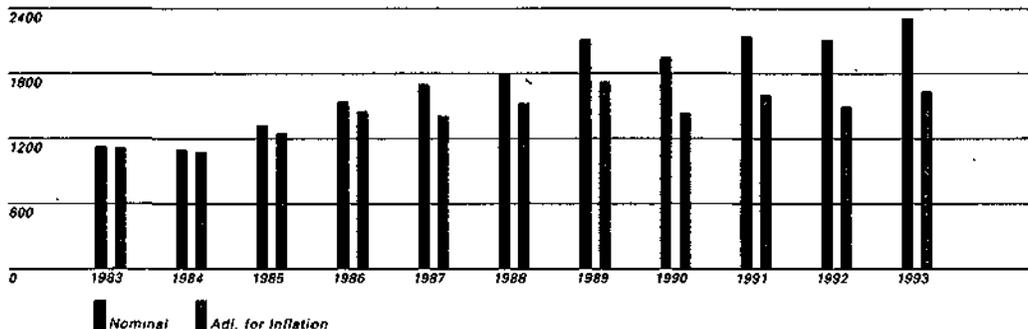
Since 1972, the Foundation has occupied space on Sixth Avenue; in 1994, the lease expires. A comprehensive financial analysis, a lengthy search for a new site, and the consideration of alternatives culminated in the purchase of a condominium interest in a building at 420 Fifth Avenue in New York City. To minimize occupancy costs and finance the purchase without liquidating any investments in the endowment, the Foundation issued \$30.3 million of tax-exempt long-term bonds through the New York City Industrial Development Authority. The bonds are a general obligation of the Foundation, and received the highest credit ratings from Moody's and Standard & Poor's—Aaa and AAA, respectively. The lower interest rates of tax-exempt bonds allow the Foundation to maintain higher grant budgets than conventional interest rates would permit.

Asset Growth

The market value of the Foundation's assets totaled \$2,303 million at December 31, 1993, up 10.2 percent from \$2,090 million, the 1992 year-end total. The graph below shows growth in asset values over the past decade. Nominal assets grew at an annualized rate of 7.6 percent over the period. The real value of assets grew at a 5.9 percent annualized rate, well outpacing the Foundation's long-term objective of maintaining level real-asset values.

Asset Growth Graph

Dollars in millions



Asset Mix

Diversification is the cornerstone of the Foundation's investment program. Before the Trustees adopted the revised investment policy in 1992, diversification was limited to traditional asset classes such as domestic and international stocks, bonds, venture capital, cash, and real estate, in which investment return is tied to systematic economic risk. Therefore, skill-based strategies, in which return is linked to trading skill rather than economic trends, represent an important addition to the Foundation's diversification program.

The Foundation's policy portfolio contains allocations to seven asset classes: U.S. equity, 32 percent; foreign equity, 25 percent; U.S. fixed income, 16 percent; foreign fixed income, 7 percent; real estate, 10 percent; private equity and venture capital, 7 percent; and junk bonds, 5 percent. The investment in skill-based strategies is currently financed from unfunded commitments to the illiquid real estate and private equity sectors, where it will take at least two years to attain policy targets. When the illiquid sectors are fully funded, the allocation to skill will be drawn proportionately from all asset classes represented in the policy portfolio. The Foundation maintains a program-related investment program (PRI) which, because of its fixed return nature, is included in the U.S. fixed income allocation. Since PRIs earn below-market returns, the Foundation program unit authorizing each PRI "writes up" the return on the PRI from the concessional rate at which it is issued to an appropriate market rate from its grants budget. This mechanism, coupled with certification by the Treasurer's office of the project's financial solvency, ensures that the achievement of the Foundation's financial objectives is not compromised.

The table on the following page shows the asset allocation of the endowment at year-end 1993 and 1992. The categories reflect economic exposures and include the effect of derivative securities, primarily equity and bond futures. Because these categories incorporate the underlying exposures gained by derivatives positions, they differ from those presented in the accompanying financial statements and described further in Note 1 of the Financial Statements on page 122. The primary changes in asset mix from 1992 to 1993 resulted from the full funding of the international fixed income sector and continued funding of the real estate sector toward its full policy target of 10 percent.

Asset Allocation Table

<i>December 31</i>	1993		1992	
<i>Dollars in millions</i>	\$ Millions	Percent	\$Millions	Percent
U.S. Equities	\$666	28.9%	\$616	29.5%
Foreign Equities	605	26.3%	506	24.2%
U.S. Bonds	358	15.5%	377	18.0%
Skill & Short Term	177	7.7%	266	12.7%
Real Estate	171	7.4%	119	5.7%
Foreign Bonds	158	6.9%	76	3.6%
Venture Capital	89	3.9%	85	4.1%
Junk Bonds	70	3.0%	35	1.7%
PRI's	9	0.4%	10	0.5%
Total	\$2,303	100.0%	\$2,090	100.0%

Investment Returns

The Foundation's investment program is designed to maintain the real value of assets and to support a spending guideline of 5.8 percent of assets, which exceeds the 5 percent I.R.S. distribution requirement. While returns will not precisely equal the payout requirement in any year, the Foundation is prepared for the periodic setbacks that declining markets incur, confident that patient, diversified participation in long-term capital markets offers the most prudent strategy for achieving its financial objectives.

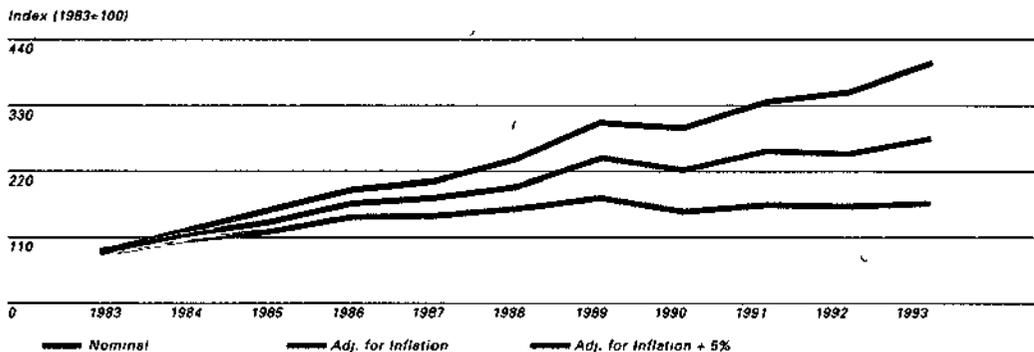
The opportunities that capital markets provided for asset growth in 1993 are reflected in the 16.4 percent total investment return after fees and the Treasurer's office expenses. In one of the lowest-volatility years on record, investors were not exposed to the confidence-shaking pullbacks that are typical even in healthy markets.

In general, foreign stock and fixed income markets outperformed their domestic counterparts by substantial margins. Hence, the shift to international securities which held back investment performance in 1992 proved beneficial to total returns in 1993. In the alternative assets sector, junk bond investors enjoyed a second year of returns in excess of 20 percent. Real estate, a sector in which the Foundation has a major commitment, continued to provide sluggish, positive returns; however, evidence of a recovery in residential and industrial property types began to appear, causing prices in those sectors to tighten. Finally, the skill-based portfolio—which was designed to produce earnings equal to the policy portfolio and to be uncorrelated with earnings of traditional asset classes—returned 7.0 percent from July through December, surpassing its real return goal by more than 2 percent for the six-month period.

As noted earlier, above-average exposure to foreign securities and outperformance against benchmark by most of the investment managers explain the improved 1993 results. Among the asset classes, domestic equity, foreign equity, domestic bonds, real estate, high yield bonds, and the short-term sector outperformed their passive benchmarks. Only the private equity and foreign bond sectors underperformed their benchmarks.

The top line in the graph on the following page shows cumulative returns for the last decade, net of all investment-related fees and expenses. The average annual compound rate of return on invested capital for the 10-year period was 14.8 percent; adjusted for inflation, the compound annual return was 10.9 percent.

Investment Returns Graph

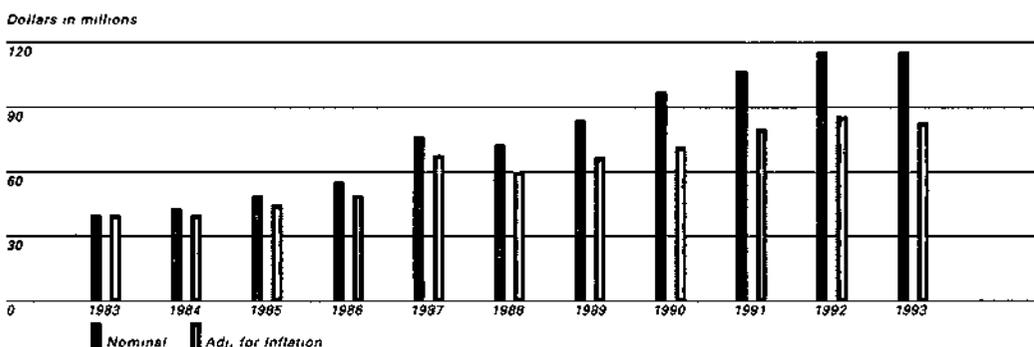


Investment Managers

The Foundation employed 10 U.S. equity managers at the end of 1993: Wells Fargo Nikko Investment Advisors (WFNIA), Rosenberg Institutional Equity Management, MTH Asset Management, SAJE Asset Management, Advanced Investment Management, Geewax-Terker & Co., Fred Alger Management, Amerindo Investment Advisors, Twin Capital Management, and Independence Investment Associates. The domestic fixed income sector contained managers WFNIA and Smith Breeden Associates. International equity managers were WFNIA, Acadian Asset Management, Mercator Asset Management, Jennison Associates, and Emerging Markets Management. WFNIA and Bridgewater Associates managed international fixed income portfolios. BEA Associates and Pareto Partners managed currency hedging programs. The cash equivalents sector comprised a small, internally managed account and the skill-based portfolio, managed by Collins Associates. The Foundation's illiquid investments in the real estate, junk bond, and venture capital areas were held in 46 illiquid partnerships and funds. The largest such partnerships and accounts were managed by Whippoorwill Associates (junk bonds), AMLI Realty (real estate), J. W. O'Connor & Company (real estate), CIGNA (real estate), TA Associates (real estate), and Joseph, Littlejohn and Levy (private equity).

Spending

Spending, that is, grants and general administrative expenses, totaled \$116.4 million in 1993, nearly unchanged from 1992. As the graph below shows, nominal and real spending have increased sharply since 1985. Under the Foundation's budget spending guideline of 5.8 percent of assets, the increases in spending relate directly to the increase in asset values registered since 1985.



Report of Independent Auditors

We have audited the accompanying statement of assets, obligations, and principal fund of The Rockefeller Foundation as of December 31, 1993 and 1992, and the related statements of operations and changes in principal fund and of changes in financial position for the years then ended. These financial statements are the responsibility of The Rockefeller Foundation's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with generally accepted auditing standards. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of The Rockefeller Foundation at December 31, 1993 and 1992, and the results of its operations, changes in its principal fund, and changes in its financial position for the years then ended in conformity with generally accepted accounting principles.

Ernst & Young
New York, New York
February 24, 1994

Statement of Assets, Obligations, and Principal Fund

December 31

Dollars in thousands

	1993	1992
Assets		
Investments (Notes 1 and 2)	\$2,320,160	\$2,108,983
Cash (in 1993, principally bond proceeds restricted as to use (Note 7))	11,818	16,600
Accounts receivable	6,982	6,741
Dividends and interest receivable	2,670	7,171
Construction-in-progress (Note 7)	18,421	—
Property—at depreciated cost (Note 4)	678	1,253
Other assets (Note 5)	14,647	11,388
Total assets	\$2,375,376	\$2,152,136
 Obligations and principal fund		
Accounts payable and accrued liabilities (primarily security purchases net of sales)	\$21,306	\$52,210
Federal excise tax payable (Note 3)	168	248
Bonds payable, net of unamortized discount of \$363 (Note 7)	29,897	—
Note payable to bank (Note 8)	11,000	—
Deferred federal excise tax (Note 3)	2,487	146
Appropriations by the Trustees, approved for specific grantees/purposes but not yet paid (Note 6)	68,271	68,290
Total obligations	135,129	120,894
 Commitments (Notes 1, 2, 5, and 9)		
 Principal fund:		
Appropriations by the Trustees (Note 6):		
For allocation to future grantees	60,118	52,201
Budget for operations and new grants for the following year	119,989	119,490
	180,107	171,691
Unappropriated	2,062,140	1,859,551
Total principal fund	2,242,247	2,031,242
Total obligations and principal fund	\$2,375,376	\$2,152,136

See accompanying notes.

Statement of Operations and Changes in Principal Fund

Years ended December 31

Dollars in thousands

	1993	1992
Dividends	\$19,325	\$26,535
Interest	45,313	40,397
Other income	627	544
Net realized gain on sales of investments	158,823	145,795
Total realized investment income	224,088	213,271
Less investment expenses	16,197	15,371
Net realized investment income	207,891	197,900
 Less:		
Approved grants and program costs	107,581	113,158
General administrative expenses	6,529	5,640
Provision for federal excise tax (<i>Note 3</i>)	2,073	1,908
	91,708	77,194
 Increase (decrease) in unrealized appreciation of investments, net of provision (credit) for deferred federal excise tax— 1993: \$2,341; 1992: \$(3,214) (<i>Notes 1 and 3</i>)		
	119,297	(157,704)
 Principal fund at beginning of year		
	2,031,242	2,111,752
Principal fund at end of year	\$2,242,247	\$2,051,242

See accompanying notes.

Statement of Changes in Financial Position

Years ended December 31
Dollars in thousands

	1993	1992
Sources of cash		
Net realized investment income	\$207,891	\$197,900
Net change in accounts receivable, dividends and interest receivable, and accounts payable and accrued liabilities	-	48,944
Net proceeds from issuance of bonds payable	29,738	-
Proceeds from issuance of note payable to bank	11,000	-
Total sources of cash	248,629	246,844
Applications of cash		
Net change in accounts receivable, dividends and interest receivable, other assets, and accounts payable and accrued liabilities	26,868	-
Expenditures for grants and operations:		
Agricultural Sciences	20,130	21,941
Arts and Humanities	13,423	13,467
Equal Opportunity	13,771	15,980
Health Sciences	15,220	13,955
Population Sciences	13,996	13,498
Global Environment	10,695	7,383
African Initiatives	4,950	4,995
School Reform	6,216	6,434
International Security	1,846	1,222
International Philanthropy	123	227
Special Interests and Explorations	3,365	4,989
International Relations	-	5
Bellagio Center and Archives	3,272	3,614
Warren Weaver Fellowships	566	664
Other	28	35
	134,469	108,409
General administrative expenditures	8,771	7,953
Estimated federal excise taxes paid (Note 3)	2,246	1,792
Property additions and capitalized construction costs	18,507	-
Net securities transactions exclusive of realized gains	89,418	117,896
Total applications of cash	253,411	236,050
Increase (decrease) in cash	(4,782)	10,794
Cash balance at beginning of year	16,600	5,806
Cash balance at end of year	\$11,818	\$16,600

See accompanying notes.

Notes to Financial Statements

December 31, 1993 (in thousands)

1. Investments

Marketable securities are reported on the basis of quoted market value, and investment income and expenses are reported on the accrual basis. Realized gains and losses are calculated based on the specific identification method for both financial statement and tax return purposes. Limited partnership interests in real estate are reported at appraised or estimated fair value. Venture capital limited partnership interests are reported at estimated fair value.

December 31 Dollars in thousands	1993		1992	
	Cost	Market Value	Cost	Market Value
Marketable securities:				
U.S. and other government obligations	\$528,819	\$311,597	\$387,480	\$374,152
Money market funds	496,708	496,207	297,158	297,158
Foreign currency—short-term	—	2,132	3,115	3,720
Common stock	675,485	851,851	909,233	965,290
Corporate obligations	147,011	155,214	151,072	157,245
Other investments	36,814	28,474	41,517	36,959
Preferred stock	16,199	16,199	12,500	12,500
Subtotal	1,701,036	1,861,674	1,802,075	1,847,024
Limited partnerships and similar interests:				
Real estate	246,839	182,049	182,138	119,083
Venture capital	94,047	101,177	73,284	86,553
Other	155,000	175,260	50,000	56,323
Subtotal	495,886	458,486	305,422	261,959
Total	\$2,196,922	\$2,320,160	\$2,107,497	\$2,108,983

As of December 31, 1993, under the terms of various venture capital, real estate limited partnership, and other agreements, the Foundation has commitments to contribute approximately \$133,000 (\$86,000 in 1992) in additional capital over the next 10 years.

2. Financial Instruments with Off-Balance-Sheet Credit or Market Risk

As a result of its investing strategies, the Foundation is a party to a variety of off-balance-sheet financial instruments. These financial instruments include equity, fixed income and foreign currency futures and options contracts, foreign currency forwards, and interest rate cap and floor contracts. Much of the Foundation's off-balance-sheet exposure represents strategies that are designed to reduce the interest rate and market risk inherent in portions of the Foundation's investment program by hedging physical securities positions with derivative securities. Changes in the market values of these financial instruments are recognized currently in the statement of operations using the mark-to-market method, with corresponding amounts recorded in respective investment categories.

Off-balance-sheet financial instruments involve, to varying degrees, elements of market risk and credit risk in excess of the amounts recorded on the statement of assets, obligations, and principal fund. Market risk represents the potential loss the Foundation faces due to the decrease in the value of off-balance-sheet financial instruments. Credit risk represents the maximum potential loss the Foundation faces due to possible non-performance by obligors and counterparties of the terms of their contracts.

Contract amounts represent the full extent of the Foundation's involvement in particular classes of financial instruments. A summary of the gross contract amounts of off-balance-sheet financial instruments with market risk at December 31, 1993 and 1992 follows:

<i>December 31</i>	1993	1992
<i>Dollars in thousands</i>	<hr/>	
Equity futures	\$396,674	\$331,739
Fixed income futures	6,516,511	10,973,360
Foreign exchange futures and forwards	318,794	264,994
Equity index options	73,875	217,500
Fixed income options	50,000	—
Interest rate swap contracts	67,200	54,000

Contract amounts are used to express the volume of transactions, but the amounts potentially subject to credit risk are much smaller.

The Foundation intends to close out most open contract positions prior to their respective settlement dates and, thus, the cash receipt or payment associated with each contract is subject only to the change in value of the underlying instrument. The margin cash requirements on deposit for futures contracts were approximately \$33,693 at December 31, 1993 (\$32,165 at December 31, 1992).

Securities sold, not yet purchased (\$264,000 and \$429,000 at December 31, 1993 and 1992, respectively, recorded net in the Foundation's investment accounts), have market risk to the extent that the Foundation, in satisfying its obligations, may have to purchase securities at a higher value than that recorded.

Management does not anticipate that losses, if any, resulting from credit or market risk would materially affect the financial position and statement of operations and changes in principal fund of the Foundation.

3. Federal Excise Tax

The Foundation qualifies as a tax-exempt organization under Section 501(c)(3) of the Internal Revenue Code and, accordingly, is not subject to federal income tax. However, the Foundation is classified as a private foundation and is subject, under certain circumstances, to a federal excise tax of 2 percent on investment income less investment expenses, and on net realized taxable gains on security transactions. In accordance with Section 4940(e) of the Internal Revenue Code, during the years ended December 31, 1993 and 1992, the Foundation met the specified distribution requirements and was subject to a federal excise tax of 1 percent in place of the 2 percent tax.

Deferred federal excise tax arises from timing differences between financial and tax reporting relating to investment income and the difference between the cost basis and market value of marketable securities.

4. Property

Expenditures for capital items currently in use are included in the property account and are depreciated on a straight-line basis over the lives of the respective assets or amortized over the term of the lease. The net change in the property account in 1993 was caused by an addition of \$86 and a decrease of \$661 attributable to depreciation and amortization of property. Depreciation and amortization of property totaled \$613 in 1992.

5. Pension Plan, Trusteed Savings Plan, and Employee Benefits

The Foundation maintains a defined benefit pension plan (the "Plan") for regular salaried employees who are at least 21 years old and have completed one year of service or have attained the age of 40. The Plan provides retirement benefits based on years of service and final-average pay, with benefits after retirement subject to increase under a cost-of-living augmentation formula. Plan assets are invested in a diversified portfolio of common stocks and fixed-income securities.

Selected information on the Plan's funded status and the amounts recognized in the Foundation's statement of financial position at December 31 follows:

<i>Dollars in thousands</i>	1993	1992
Plan assets at fair value	\$69,686	\$64,075
Less projected benefit obligation	(46,811)	(38,828)
Funded status—surplus	\$22,875	\$25,247
Prepaid pension cost included in other assets	\$14,182	\$11,388

Program and administrative costs incurred in 1993 and 1992 were reduced by a net pension credit of \$2,794 and \$2,511, respectively.

The projected benefit obligation for the Plan was determined using the assumed discount rate of 7 percent in 1993 and 8 percent in 1992, and an annual salary increase rate of 6 percent. The assumed long-term rate of return on plan assets was 9 percent.

The Foundation also maintains a Trusteed Savings Plan for regular salaried employees under which Foundation contributions are made equal to employee contributions up to 5 percent of pay. The combined contributions are credited to the employees' accounts. These accounts are invested and, at termination of employment, the employee receives the account balance. The Foundation's contributions to this plan were \$356 for 1993 and \$329 for 1992.

The Foundation provides certain health care and life insurance benefits for retired employees. Employees are eligible for these benefits when they meet the criteria for retirement under the Foundation's pension plan. The cost of such benefits was approximately \$755 and \$982 in 1993 and 1992, respectively, of which approximately \$670 and \$900, respectively, was funded through a transfer of excess funds accumulated in the Plan. Postretirement benefits generally are recognized as expense as the related insurance premiums are incurred.

In December 1990, the Financial Accounting Standards Board (FASB) issued Statement of Financial Accounting Standards No. 106, *Employers' Accounting for Postretirement Benefits Other Than Pensions* (SFAS 106). The provisions of SFAS 106 require that the expected cost of providing postretirement benefits be accrued during the years that the employee renders the necessary service and become effective during the year ending December 31, 1995. The Foundation does not expect the adoption of SFAS 106 to have a material adverse impact on its financial position.

6. Appropriations and Expenditures

Appropriations by the Trustees are considered to be obligations when grants are approved for specific grantees; appropriations not released for specific grantees and the appropriation for the budget for the next year are considered as appropriated principal fund. Administrative costs are charged to operations when incurred.

Appropriations and expenditures for the year are summarized as follows:

<i>Dollars in thousands</i>	Appropriated for specific grantees/ purposes	Appropriated for allocation and next year's budget	Total appropriated
Balance, January 1, 1993	\$68,290	\$171,691	\$239,981
Approved grants, and program and administrative costs	115,052	(108,739)	6,313
Lapses and refunds	(210)	(2,834)	(3,044)
Expenditures for grants and operations	(116,372)	—	(116,372)
1994 budget	1,511	119,989	121,500
Balance, December 31, 1993	<u>\$68,271</u>	<u>\$180,107</u>	<u>\$248,378</u>

7. Bonds Payable

During fiscal year 1993, the Foundation issued \$20,445 in tax-exempt term bonds and \$9,815 in tax-exempt serial bonds to fund the acquisition, construction, and furnishing of a new office facility (the "Facility").

The bond proceeds and related investment income earned are held by a trustee (the "Trustee") and are disbursed at the direction of the Foundation to fund allowable Facility-related costs, which aggregated \$18,421 at December 31, 1993, including capitalized interest and amortization of deferred financing charges of approximately \$677.

The bonds are rated Aaa by Moody's and AAA by Standard & Poor's, and are backed by the general assets of the Foundation. In addition, the bonds are secured by the Foundation's ownership interest in the Facility, a leasehold interest in the Facility, insurance proceeds with respect to the Facility, and certain amounts held by the Trustee.

The nominal interest rates on the serial bonds range from 2.4 percent to 5.1 percent. The nominal interest rates attributable to the term bonds are 5.2 percent and 5.4 percent.

Notes to Financial Statements: Bonds Payable (continued)

The serial bonds mature in various amounts, ranging from \$495 to \$880 per year, beginning in 1994 and ending in 2008. The term bonds are due in 2013 (\$5,140) and 2023 (\$15,305). Bond maturities are as follows:

Fiscal year ending December 31:	
1994	\$495
1995	505
1996	520
1997	540
1998	560
Thereafter	<u>27,640</u>
	<u>\$30,260</u>

8. Note Payable to Bank

In August 1993, the Foundation borrowed \$11 million to partially fund an investment in a real estate project. The note payable bears interest at a rate equal to the LIBOR rate (3.5 percent at December 31, 1993) plus ¼ percent per annum and is payable on demand.

9. Other Commitments

The Foundation has entered into various agreements for the acquisition, construction, and installation of the Facility. At December 31, 1993, outstanding commitments amounted to approximately \$9 million in Facility-related costs.

At December 31, 1993, the Foundation was the guarantor of a \$21.5 million loan borrowed from a bank by a real estate partnership in which the Foundation is invested.

10. Accounting for Contributions and Financial Statement Display

In June 1993, the Financial Accounting Standards Board issued Statement of Financial Accounting Standards No. 116, *Accounting for Contributions Received and Contributions Made* (SFAS 116), and Statement of Financial Accounting Standards No. 117, *Financial Statements of Not-for-Profit Organizations* (SFAS 117).

SFAS 116 establishes standards of accounting for contributions and applies to all entities that receive or make contributions. Among other things, SFAS 116 requires contributions made and unconditional promises to give to be recognized as expenses in the period made at fair values. Conditional promises to give are to be recognized when they become unconditional; that is, when the conditions are substantially met.

SFAS 117 establishes broad standards for reporting information in general-purpose external financial statements issued by not-for-profit organizations, and requires that all not-for-profit organizations provide a statement of financial position, a statement of activities, and a statement of cash flows that focus on the entity as a whole. Amounts related to an organization's financial position and activities are to be reported in three classes of net assets—permanently restricted, temporarily restricted, and unrestricted.

SFAS 116 and SFAS 117 will be effective no later than for the Foundation's fiscal year ending December 31, 1995. The Foundation does not expect the adoption of SFAS 116 or SFAS 117 to have a material impact on the presentation of its financial statements.

Foundation Organization

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Information for Applicants

To achieve lasting results with limited resources, the Rockefeller Foundation concentrates its grants and fellowships on purposes approved by the Board of Trustees and expressed in program guidelines. Summaries of these guidelines introduce each program section in the grants and fellowships listings on page 61 of this annual report. Copies of the guidelines in full are available from the Foundation.

The programs of the Foundation are planned, developed, and conducted by its staff, assisted by consultants and advisory panels. Members of the staff travel and study extensively, visit Foundation-supported projects, and observe programs and projects of potential interest.

Therefore, many proposals and grants stem from interactions with individuals and institutions that have the capabilities required to accomplish the objectives of the Foundation. Other grants and fellowships are awarded through publicized competitions designed to advance program goals.

The Foundation receives more than 10,000 unsolicited proposals each year, and while many are declined because their purposes fall outside program guidelines, staff members review the remainder, which are funded on a competitive basis within budgetary limits.

Grants

The factors considered in evaluating grant proposals include the potential of the proposed project for accomplishing its objectives and contributing significantly to the "well-being of mankind;" the relevance of the project to the Foundation's programs; the applicant's qualifications and record of achievement; and the extent of the applicant's efforts to secure additional funding from other sources.

Fellowships

Each year, a number of fellowships are announced and awarded through Foundation programs. These fellowships provide support to individuals for training and for research and other specified projects.

Limitations

As a matter of policy, the Foundation does not give or lend money for personal aid to individuals; contribute to the establishment of local hospitals, churches, schools, libraries, or welfare agencies, or to their building and operating funds; finance altruistic movements involving private profit; or support attempts to influence legislation.

In addition, the Foundation does not normally provide general institutional support or endowment. Occasional exceptions are made for organizations or institutions in which the Foundation has played an important creative role or which serve and support organized philanthropy in the United States. Although general or core support is seldom given, the Foundation tries to ensure that the full direct costs of a project are taken into account in the calculation of grant budgets.

External Affirmative Action Policy

The Foundation believes that important issues of underrepresentation of minorities and women remain unresolved in our society, and seeks to play a constructive role in their resolution. To that end, the Foundation systematically invests in the professional development of minorities and women and their promotion into leadership roles, and expects grantee organizations in the United States to do the same.

Consequently, questions regarding affirmative action will be raised where collaboration between the Foundation and U.S. applicants or grantees might improve opportunities for underrepresented groups. In such instances, as a first step, the Foundation may ask applicants and grantees to inform us of their efforts with respect to affirmative action, and to support their response, when appropriate, with data on the gender and minority composition of the institution's leadership.

Requests and Applications

In general, no special form is required to apply for a grant or fellowship, but the proposal or application should include the items listed below. Requests for an application for a conference or residency at the Bellagio Study and Conference Center should be sent to the Bellagio Conference Office. In cases where any other special form is required, it will be sent upon receipt of the following:

- a description of the proposed project or fellowship activity, with clearly stated objectives and plans;

- a comprehensive plan for the total funding of the project during and, where applicable, after the proposed grant period; and

- a listing of the applicant's qualifications and accomplishments and, where applicable, a description of the institutional setting.

Completed proposals and applications should be sent to the secretary of the Foundation or to the director of the relevant division or program. Other inquiries about the Foundation should be sent to the Communications Office. The general mailing address is The Rockefeller Foundation, 420 Fifth Avenue, New York, New York 10018-2702 USA.

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