PRESIDENT'S REVIEW

& ANNUAL REPORT

1990

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The Rockefeller Foundation 1990 Annual Report

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On the cover

Generations of Creative Genius © Varnette P. Honeywood, 1990.

Created for the National Black Arts Festival, Atlanta, Georgia.

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Introduction

The Rockefeller Foundation is a philanthropic organization endowed by John D. Rockefeller and chartered in 1913 "to promote the wellbeing 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, its work has been directed toward identifying and attacking at their source the underlying causes of human suffering and need.

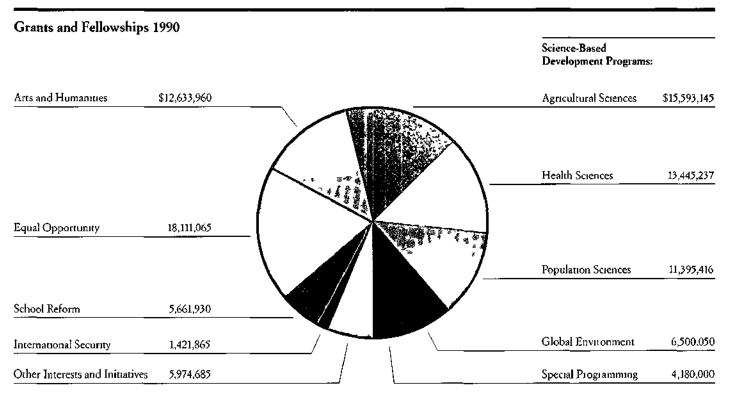
Today, the Foundation offers grants and fellowships in three principal areas: international science-based development, the arts and humanities, and equal opportunity for U.S. minorities. Within science-based development, the emphases are on the global environment and on the agricultural, health, and population sciences. The Foundation also has smaller grant programs in international security and in school reform to improve public education for at-risk young people.

The Foundation concentrates its efforts on selected programs with well-defined goals, but tries to remain flexible by adjusting its course to reflect new needs and opportunities as they arise. In addition, the Foundation maintains the Bellagio Study and Conference Center in northern Italy for conferences of international scope and for residencies for artists and scholars.

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.

The chart below depicts—by program and division—the grants, appropriations, and fellowships approved in 1990.

Information on how to apply for grants and fellowships begins on page 120.



Total \$94,717,353

The President's Review

ne of the perplexing issues for foundations is effectiveness. How can we determine whether a course of action actually helps to change something in the direction we intend? Or that the direction we intended was the right one?

Some foundations are in the business of service, and some are in the business of innovation. This was part of the insistent insight of John D. Rockefeller when he urged that the new Foundation that bore his name aim at "the root causes" of poverty and disease.

Charity and innovation are different. One is not better or more important than the other; they are simply different. Both approaches affect what happens to the individual human being—in one case by serving him or her, and in the other by changing his or her circumstances and opportunities. Both raise profound, troublesome questions about what really helps, limits, frees, or oppresses in the human circumstance.

To innovate means *to change* a system or situation or framework whose consequences are unsatisfactory. This is dangerous ground. Foundations are small in size and consequently dogged by uncertainty about how their initiatives will interact with the deeper, more powerful currents of history they encounter.

Any foundation initiative that aims at constructive innovation—at changing something for the better should reflect a serious concern with effectiveness. In debating at the Rockefeller Foundation whether to support a given grantee or course of action, we do indeed ask whether a proposal contains a plausible theory of change.

Many of the major program actions taken in 1990 entailed judgments as to how to maximize the impact of constructive innovation. Many of these judgments flow in turn from a sense of what our comparative advantages are. The comparative institutional advantages of an independent foundation include:

• The ability to support first-rate talent. Our money and organizational size are relatively small in an immense, interdependent world populated by thousands of governmental and private organizations. But in the end, change flows from the leadership, insight, commitment,

...we do indeed ask whether a proposal contains a plausible theory of change.

and sweat of talented people. Identifying and investing selectively in talented human capital is a traditional and important foundation strategy.

• The ability to join an issue early on. A foundation's capacity to prepare the ground for change is greater if it starts far upstream, when an issue is in its early stages and has not yet collected numerous participants, feverish adherents, tremendous gravity, or the sensitivity and intractability of highly inflamed public controversy. The danger of being wrong about the character, importance, or evolution of an issue is also correspondingly greater when one engages the issue upstream. ■ The ability to undertake a course of action that may bring results only after a long period of time—one decade, or two, for example. One of the most precious and important attributes of a foundation is the freedom to pursue difficult, risky, or idealistic long-term objectives with some immunity from short-term pressures.

These broad advantages and other more specific devices can all be enlisted in the search for successful strategies for change.

One of the most overused words in the foundation world is "leverage," by which is meant the amplification of an intended effect in order to promote a larger change. Pursuit of the elusive logic of leverage in philanthropy is intense; the achievements in amplification are modest. It is safest to examine the effectiveness calculus without resort to the word "leverage" or the mysterious philanthropic magic it is often used to evoke.

This review summarizes some of our major actions of the past year in terms of the strategies for change they employed.

The Energy Foundation

The Rockefeller Foundation joined with the John D. and Catherine T. MacArthur Foundation and the Pew Charitable Trusts to create the Energy Foundation, a new organization aimed at making patterns of energy generation and consumption in the United States more efficient and sustainable.

The formation of this partnership was itself an important part of the

strategy. The Energy Foundation intends to help the United States get on the road to a policy of high energy efficiency and energy renewables. It will fund implementation and replication of proven energyefficient practices. The Energy Foundation will be pursuing this single objective through multiple

... there were proven methodologies of energy efficiency ready to be adopted.

avenues, including local utilities, non-profits, and advocates. It was therefore logical to create one organization with one staff, one mission, and one board to carry out this approach rather than to have each of three multipurpose national foundations attempt a part of it.

But we judged also that the *fact* of three well-known national foundations joining together to pursue an important common objective through a single instrument would in itself help attract attention to and support for that objective. This consideration was as important as the combination of financial resources, since each foundation could have allocated individually to any common objective the same funds it contributed to the partnership.

The initial "impulse to cooperate" did not tell the three foundations on what issue to join resources. An enormous array of national and international problems present themselves as candidates for cooperation. From this array, why new energy practices for the United States?

From the beginning, we were pulled toward environmental issues.

Each of the three foundations was already active, but at a level that was inadequate given the scope of the challenge. Two of the foundations, MacArthur and Rockefeller, primarily focused their environmental grant-making internationally. This raised a serious problem, for to try to help Mexico or India or China or Zimbabwe to improve their environmental performance and to ignore practices in the United States that harm the global environment was not productive or sensible.

Still, the agenda was broad. The end-point was not predetermined by trustee or officer preferences. The end-point—energy efficiency and renewables—emerged from the weight of the evidence and argument presented to us:

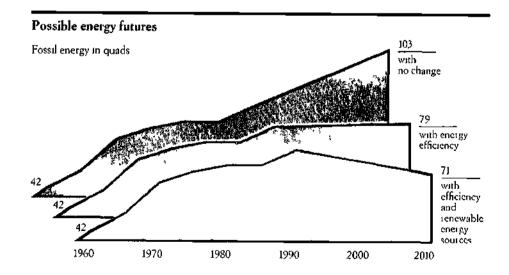
• the finding that there were proven methodologies of energy efficiency ready to be adopted. The "changes" in question had to be replicated and propagated, not invented; the assessment that this would be a long-term job lasting a decade or more;

 the conclusion that there was no existing national funding organization that had energy efficiency as its primary focus; and

• the judgment that identifying the names of the three foundations with the new organization, as well as pooling funds through a single structure, would underline the seriousness of the undertaking and increase its ability to influence others.

No reasonable person, it seems to those of us who became converted to the cause of improved energy

US fossil fuel consumption could be significantly reduced if cost-effective, energy-efficiency technologies are brought into play By also taking advantage of renewable energy sources, dependency on fossil fuel could actually be reduced below today's level, along with the adverse international security and environmental consequences of that dependence Source The Energy Foundation



practices, can fail to appreciate the considerable opportunity that lies ahead.

The opportunity can be seized upon for reasons of a cleaner, healthier environment, for reasons of economic competitiveness and growth, for reasons of strengthened international security, or for reasons of global citizenship. Whatever the preferred reason—and the foundations believe all four matter—it defies logic, common sense, and selfinterest for the United States to persist in its wasteful energy practices and to drive into the next century as if fossil fuels are limitless and benign.

Female Participation in Education in Africa

To raise the levels of participation by young females in education in Africa is a task that will require significant resources, new policies by African governments, changed parental attitudes, and new cooperation among donors. But the long-term payoff of increased female education is potentially one of the most far-reaching and positive that can be imagined in terms of economic self-sufficiency, health management, and family planning at the household level. This is a change worth pursuing.

The Foundation has embarked, therefore, on the extremely ambitious and difficult task of working with other international donors to help African governments formulate a large-scale, long-term strategy to increase female attendance and education performance.



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The Working Group on Female Participation in Education, convened by the Foundation, operates under the auspices of the Task Force of Donors to African Education, led by the World Bank. Its work covers all levels of education, but pays particular attention to late primary and early secondary school-when female education has greatest impact on behaviors and attitudes that lead to strong future roles in national development. At present, only 10 percent of females attend secondary school in Africa, far lower than the percentage of males in

African girls in primary schools are far less likely than boys to go on to secondary schooling. Fewer than 10 percent of eligible African females are enrolled in secondary schools, a figure well below that in other regions of the world. This has serious consequences for the development process. The aim of a new Foundation initiative is to address that disparity. Africa and also lower than the percentage of females in Asia and Latin America. The Foundation will support indigenous expertise to devise strategies for educational development.

The central judgments about effectiveness in this equation are these: there is significant and increasing evidence that the education of women, and the economic power and family influence that follow, are powerful variables in the development process; it is, therefore, worthwhile for a foundation to invest serious time, energy, and money in seeking an approach to accelerating female participation in education on the African continent; and that this can be accomplished most effectively in close collaboration with other donors even if the process promises to be slow and awkward. Our board appropriated \$1 million in 1990 to advance this process with the conviction that the objective was important, and with the knowledge that success was uncertain at best. Working with a diverse group of strong-minded donors does not guarantee agreement on a strategy. It does make it more likely that, if there is agreement on strategy, the resources to carry out that strategy may be obtainable.

International Leadership for Development and Environment

How to develop safely, fairly, and in an environmentally sustainable manner is a critical task we humans face over the next few decades. In 1990, we conferred and collaborated with a variety of other organizations to design a program to identify, train, and support young scientists, policymakers, humanists, and social and business entrepreneurs who will be making environmental and development policy in the next century.

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The program will identify eight to ten fellows per year in each of seven to nine major countries that face large development challenges, and which together will have enormous impact on the pattern of interna-

The issue of environmentally sustainable development is central to many problems...

tional development and the global environment. Eventually, a worldwide class of 80 to 100 fellows will be added each year. The fellows will come together for a common curricular experience in global issues of environment and development. They will be supported in work assignments in their own countries by an international panel of experts and a computer network; and they will be assigned during their twoyear fellowship to work on a concrete environment/development problem in one of the other countries participating in the program.

Surprisingly, there is no other program that aims to identify and prepare a generation of leadership for environmentally sound development policy around the world. This strategy is a classical bet on human capital. The elements of this gamble are:

• the issue of environmentally sustainable development is central to many problems and will be with us for a long time;

 there is an acute shortage of people who know this issue and have the tools to address it;

 a common curriculum can have both global usefulness and local application; and

• it is an effective use of funds to identify some of the ablest people who will be grappling with these issues, to add to their background and training, and to teach them about global environmental and development issues in a common framework with peers from other countries.

National Community Development Initiative

The community development movement is one of the few real success stories in the uneven history of attempts to better conditions in America's central cities.

The key to this success is the Community Development Corporation, or CDC. A CDC is a neighborhood-based group with local roots and constituency that sponsors physical renewal projects, such as the construction or rehabilitation of housing or the building of a community shopping center. The physical rebuilding plus the introduction of social standards and local responsibility that accompany it lead to overall community renewal and progress. The Ford Foundation was the first major American foundation to put serious resources into this movement, which has now grown to the point where there are well over 500 sizable, experienced CDCs in cities around the country.

A major question about the community development movement has been: Can it ever become big enough to make a sustained, widespread impact? To try to take community development to the next level of scale, a group of seven national foundations and The Prudential have formed a consortium with three broad objectives: • to accelerate the growth of the community development movement.

• to enlist a new set of funders and lenders in the national community development effort, and to widen use of the Program Related Investment (PRI) as a foundation tool for investment in neighborhood renewal,

• to put in place a mechanism that could supply from the conventional capital markets a flow of long-term, fixed-rate mortgage money for local CDC projects This critical role is to be played by the Federal Home Loan Mortgage Corporation (Freddie Mac), a federally chartered agency that issues and guarantees mortgage-backed securities

The result is a national community development initiative in which a core subsidy of \$62.5 million contributed by consortium members over the next three years will generate an overall investment of about \$500 million in community development. About two-thirds of the core funding will be PRIs, that is, subsi-



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dized loans of capital The loans will be made to the Local Initiatives Support Corporation and The Enterprise Foundation, two national intermediaries that will, in turn, make and manage loans to local CDCs.

The physical rebuilding plus the introduction of social standards and local responsibility which accompany it lead to overall community renewal and progress.

Why go through the timeconsuming steps of forming a national consortium? Again, the issue was how to be effective in achieving change Increasing the scale of community development meant large resources were required A consortium of large, national players is the logical group to do this The combined assets of the foundations in the consortium total about \$14 billion dollars. And the extraordinary leadership of Prudential in adding the largest social investment it has ever made in America's low-income urban areas holds out the promise that other businesses not presently involved in community development will join in the future.

The existence of LISC and Enterprise, two competent and proven national intermediaries, was another key to the effort. It meant the members of the consortium could wholesale their loans and grants to credit-worthy intermediaries and make feasible an undertaking that would otherwise have been an administrative impossibility. I have chosen the four examples above because their substance and scale mark them as among the most important of our initiatives in 1990. But also significant is that three, and possibly all of the four, will involve partnerships. Partnerships are difficult. It is hard for independent organizations not faced with a common external threat to act together. And there are, of course, situations where partnerships are too slow or too inflexible to serve well. But because all the problems we face are large, and our resources in the foundation world are small, I believe we should try to act together where that promises to be most effective. Not to try means failing to seek to be as effective as possible.

To the question I asked at the outset—"How can we determine whether a course of action actually helps to change something in the

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direction we intend?"---there is an important answer: We can evaluate our programs.

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In 1990, the Rockefeller Foundation adopted and instituted a system of regular evaluation. We cannot and will not evaluate every grant and program. But we will take a disciplined look at large, on-going programs as they proceed, both to measure their effectiveness and to inform our direction of them.

All this is more easily written than done. But we are determined to bring rigor and tenacity to this effort, and will report on it in future annual reports.

Controversy over obscenity in the arts, the terms of government support for the arts, and the public mandate of the National Endowment for the Arts erupted in 1989 and continued throughout 1990. The Foundation played an active



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role in this debate. The questions raised about how one decides what art to support apply potentially to the philanthropic sector as well as to the public sector. In addition, we were involved in several joint programs with the NEA, and thus Foundation-funded programs were affected by Federal restrictions and policies arising out of the national controversy.

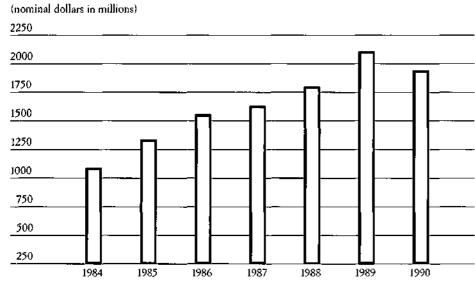
In 1990, we acted in several ways that are not usual for the Foundation:

• We testified before the Congress, at its invitation, on the issues of public policy, principle, and procedure involved in the NEA controversy.

• For programs funded jointly with the NEA, we refused to agree to use of the certificate required of its grantees by the NEA. We insisted upon and obtained NEA's concurrence with a procedure designed to protect artists' constitutional rights.

• For the first time in the Foundation's history, we went into Federal Court as an *amicus* in two suits brought against the NEA by grantees alleging that what the NEA certification process required of them was unconstitutional. In one of these suits, the court found for the plaintiffs, citing the Foundation's brief at several points. In the other, the plantiff and the NEA reached a settlement that cleared away the constitutional objection to the certification process.

• We supported the effort of various groups to re-affirm the principles of freedom of expression and restraint upon the power of the state that are central to this country's traditional values.



Year-end values of Rockefeller Foundation assets

The legislative compromise on the NEA controversy in Congress in the fall of 1990 owed much to the recommendations of a national commission appointed by the President and the two houses of Congress, and wisely co-chaired by Foundation trustee John Brademas, president of New York University. The broader issues and passions ignited and fanned over the past two years continue to fuel debate and confrontation.

Nineteen-ninety marked the end of five years of rapid growth in the financial assets of the Foundation. It couldn't last forever, and it didn't. The stormy financial weather of the second half of 1990 did not leave the Foundation unaffected. The chart above shows our total investments at year's end for each of the past 7 years.

The big question is not whether we can absorb the bumps in the road so far. We have been expecting them, and can absorb them readily without adverse impact on program level or quality. The big question is: how bumpy is it going to get from here on out? Will the five years of financial progress be followed by five years of financial famine? Our all-purpose answer is: maybe. We

... I believe we should try to act together where that promises to be most effective. Not to try means failing to seek to be as effective as possible.

have positioned the Foundation so that if a severe drop in total asset level occurs, we will have a margin of financial flexibility and time to adjust with minimum damage to program. But our underlying philosophy is that when financial conditions get tough, that is just when a foundation should be most persistent and insistent. We intend to act prudently, but not defensively. It is our business and purpose to support those who pursue constructive innovation. It is important that we continue to do that most aggressively when conditions are most difficult.

Conclusion

After 1989's miracles and excitement, 1990 offered sobering realities and even bleaker prospects. Proliferation of weapons of mass destruction, the outbreak of war in the Mideast, increased tensions and conflict in Africa and South Asia, disappointment in Eastern Europe and the Soviet Union, the continuation of repression in China, and the failure to make solid international progress on environmentally sustainable development—all these suggest that the decade ahead will be daunting.

To survive as a species of promise rather than as a race of destruction will require of us a degree of planetary cooperation that we have barely begun to imagine. That should prompt us to prepare soberly for the test of effectiveness; the history of the '90s will demand it.

But let us remember also the hope of '89. And perhaps, as Seamus Heaney writes in "The Cure at Troy": ...then, once in a lifetime The longed-for tidal wave Of justice can rise up, And hope and history rhyme.

Pote Goldmink

New Program Highlights for 1990

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The Foundation's major new initiatives are the primary focus of this narrative overview. The list of grants and fellowships that follows this section is the more complete view of the year's activities. The list chronicles all of the new initiatives of 1990 as well as the larger number of grants and fellowships for activities that were continued from prior years.

International Program to Support Science-Based Development

elping the developing world to increase its capacity to use advances in the agricultural, health, and population sciences and to share in protecting the global environment is the mission of the Foundation's International Program to Support Science-Based Development. The objective is to help countries use modern science and technology, on their own terms, and in ways that are environmentally sound, to increase their people's access to food, health, reproductive choice, education, and life's other essentials

The relatively small technical and policy communities of developing countries are being stretched beyond their capacities to respond to the global environmental challenge and its interlocking political,

...technical and policy communities of developing countries are being stretched beyond their capacities...

developmental, scientific, and cultural dimensions

These countries are expected, somehow, to begin adopting new and often untested sustainable development strategies while beginning to clean up the environmental damage of prior practices, and to do both without further jeopardizing their countries' current debtencumbered development efforts As if this were not enough, these same countries are being urged quickly to become constructive contributors in the ever-expanding and continuing regional and international deliberations about energy efficiency, resource management, environmental economics, climate change, technology transfer, pollution-induced diseases, and to help design the appropriate international agreements and institutions necessary for global environmental action.

The Foundation, working with a number of organizations and institutions, is creating a fellowship program to help build the cadre of developing-world experts needed to meet these challenges Young professionals already committed to careers in environmental sciences, policymaking, or community action in a selected group of countries will be recruited for two-year fellowships designed to:

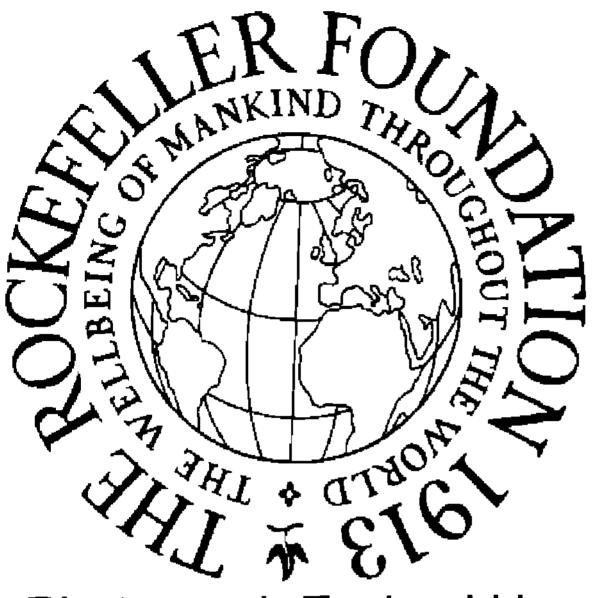
• enrich and extend their skills through workshops, internships, and electronic communication,

• support them as they address policies and policy institutions, both present and prospective, in their own countries, and

• prepare them for a period of complex international negotiation and scientific exchange leading to treaties and bargains that accommodate regional and global interests on environment and development.

The fellows' workshops will be rotated among a number of host institutions, primarily but not exclusively in the developing world, and covering a large array of topics related to the global environment In addition, there will be workshops focused on the environmental and





A number of the Foundation's 1990 grants are aimed at finding agricultural alternatives for small farmers currently using "slash and burn" techniques to clear valuable tropical forests, then planting crops for a few years and, when the soil is depleted, moving to a new location and repeating the cycle The Foundation is one of several agencies supporting and participating in an international advisory council aiding China's Hainan province to design development strategies that are environ mentally sound developmental issues facing the host country Special attention will be paid throughout to the kinds of bar gains that must be struck between human communities in the coming decades to preserve and protect the global environment

The initial fellows will be recruited from Brazil, China, India, Indonesia, Mexico, and the Soviet Union, plans call for eventually adding a few other countries from Asia and Africa, and for involving representation of organizations in North America, Europe, and Japan Eight to ten fellows from each coun try will be appointed annually

This year, the Foundation also joined with the Ford Foundation



and the United Nations Develop ment Programme on an environmental initiative in China The project began with the formation of an international advisory council to help China's Hainan province design environmentally sound development strategies, and to review major development proposals

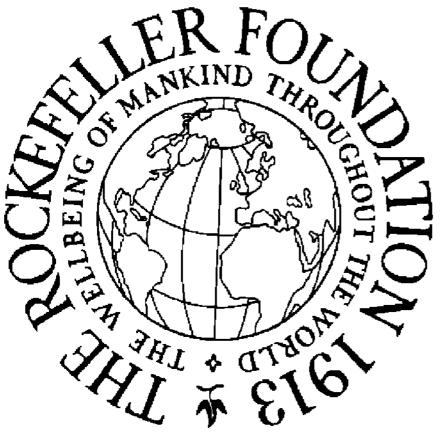
... energy efficiency creates a reserve of the safest, cleanest, and least expensive energy available...

being funded by multilateral banks

In seeking a balance between economic development and environmental protection, and with the advice of the new council, the pro vincial government is proceeding with a seven point agenda. It includes creation of a master plan, pilot studies for agricultural and forestry improvements, and explorations seeking new ways of developing technology that can serve as models for environmentally compatible industrialization

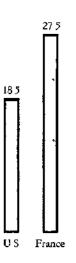
Most recently, the Foundation and its partners are responding to a request to expand this approach to assist the national government of China as it considers a national envi ronmental strategy and the impact of national strategy on international environmental issues

Another major appropriation is providing support for a variety of institutions and organizations advancing the interests of develop ing countries in the preparatory work for the 1992 United Nations Conference on Environment and



Energy Efficiency

in Automobiles US vs France Miles per gallon (figures are on road fleet averages)



in Housing US vs Sweden Energy Efficiency (degrees days x foot²/BTU per year)

1675

US

Sweden

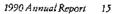
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in Manufacturing U.S. vs. Japan

Manufacturing Energy Efficiency (1980 dollars/MMBTU) Adjusted to U Scoutput mix

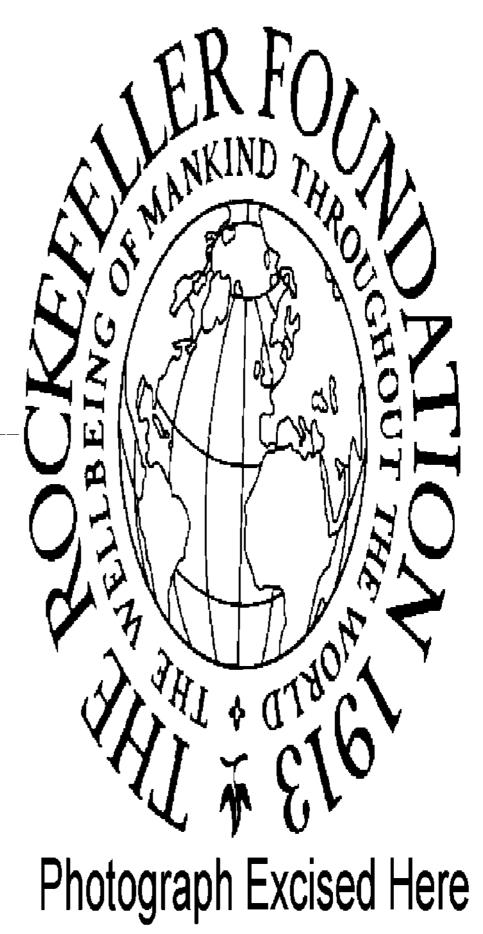


The US lags behind other industrialized nations in energy efficiency, as these charts suggest, costing the American consumer and putting the country at a relative disadvantage in international trade The Energy Foundation, which the Foundation helped create this year, is promoting greater energy efficiency in this country and the development and use of technologies producing energy from wind (above), and other renewable energy sources





Improving tropical forest management in Southeast Asia by shifting from logging operations, shown here, to forest retention and the harvesting of nuts, oil, and other sustainable products is the focus of two major projects assisted in 1990. Also, funds were provided for a more global project to help developing countries introduce adjustments to their national income accounts so that they reflect the depletion of forests and other natural resources rather than the traditional practice of simply recording only the income from timber, minerals, and other products





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Section at a the part of the Development. This includes producing background papers on 10 options for accelerating the transfer of environmentally sound technologies to developing countries; ensuring the participation of young scientists and others from developing countries in preparing the agenda and analytic papers for the Conference: and conducting a series of briefings on global warming for the cabinets of selected developing countries.

In the belief that a credible international environmental effort should be complemented with a parallel effort in the United States, the Rockefeller Foundation also joined with the John D. and Catherine T. MacArthur Foundation and the Pew Charitable Trusts to create the Energy Foundation. This new grantmaking foundation seeks to promote energy efficiency and the use of renewable energy in the United States, and will operate for



its first three years on allocations totaling \$20 million from the three donors.

This strategy is based on evidence that if this country were to use proven, off-the-shelf energy efficiency technologies, projected

...a number of the new initiatives funded have an agroforestry focus.

energy consumption in the United States over the next decade could be cut by one-third to one-half with no compromise in lifestyle. Because the United States-spending about \$450 billion a year for energy-is the largest energy consumer in the world, the resulting savings would be billions of dollars a year.

Greater U.S. energy efficiency would therefore increase the country's economic performance and could improve international security. And because the United States is the largest national contributor to global warming—over 40 percent of the world's CO₂ emissions are released in this country-greater energy efficiency would also help the global environment.

The new foundation, headquartered in San Francisco, will foster the idea that energy efficiency creates a reserve of the safest, cleanest, and least expensive energy available to this country. It will focus on five sectors: electric utilities and industry, buildings, transportation, renewable energy, and integrated issues requiring multidisciplinary approaches. And it will provide grant support for research and analysis, advocacy of promising

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1990 Annual Report 17 strategies, implementation and replication of successful models, and training. It will also explore the feasibility of accelerating the application of selected renewable sources of energy.

The Foundation's divisions in the agricultural, health, and population sciences are funding environmental projects specific to their own program interests. This year, in agriculture, a new guideline was defined and approved on the management of natural resources,

... information on water, soil, and other constraints is essential to guide research and the application of farming technologies.

and a number of the new initiatives funded have an agroforestry focus.

In Latin America, a cooperative venture of Brazil's national agricultural research agency and scientists from North Carolina State University will examine different sets of crop, grass, and tree components to develop viable, long-term cropping and agroforestry alternatives for the small-scale farmers in the Western Amazon who presently slash and burn forest land, plant crops for a few years, and then move on to a new location and repeat the cycle. To increase the project's impact, there are provisions to employ graduate assistants from Latin American universities, and for linking the participating scientists

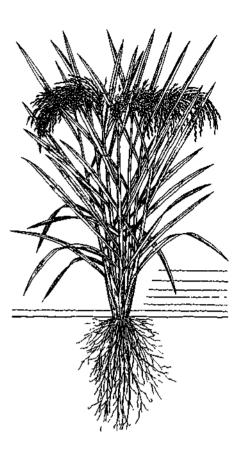
with others seeking solutions to tropical deforestation.

An African project, in Malawi, is developing agroforestry practices that can yield cash for small farmers and complement their other cropping systems. Another, in Uganda and Tanzania, is developing agricultural alternatives to slash-andburn methods.

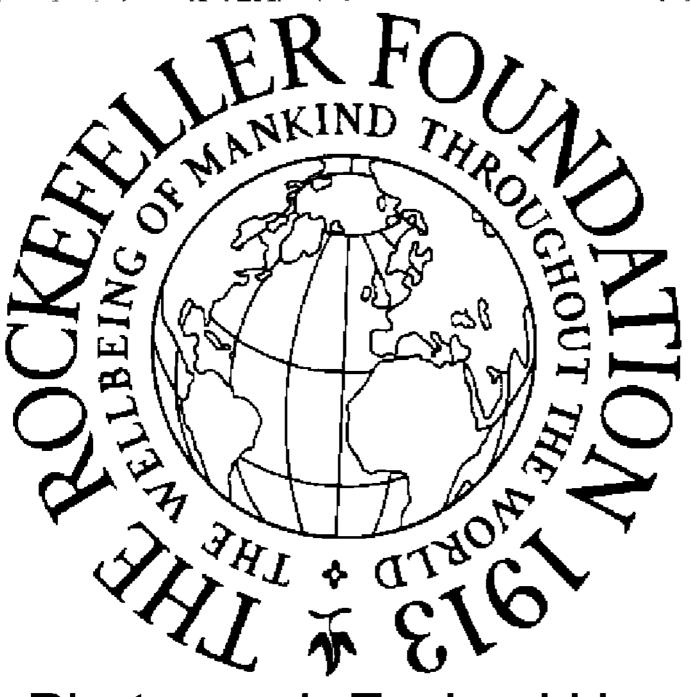
There are also two agroforestry projects in Southeast Asia. One seeks to assess the economic and environmental implications of shifting from exploiting timber to sustainable harvesting of such forest products as fruits, nuts, organic gums, and oil. The other is one of long-term field research to develop predictive models for forest management systems that would strengthen the socioeconomic case for forest retention. This project expands on work funded by the John Merck Fund, the W. Alton Jones Foundation, the National Science Foundation, the Smithsonian Institution, the World Wildlife Fund, and the U.S. Agency for International Development.

Other initiatives under the new guideline include a large-scale, Latin American study of the environmental effects of using pesticides in growing potatoes, a major Andean food crop. Results from the study will be used to formulate recommendations for modifying government policies influencing pesticide use.

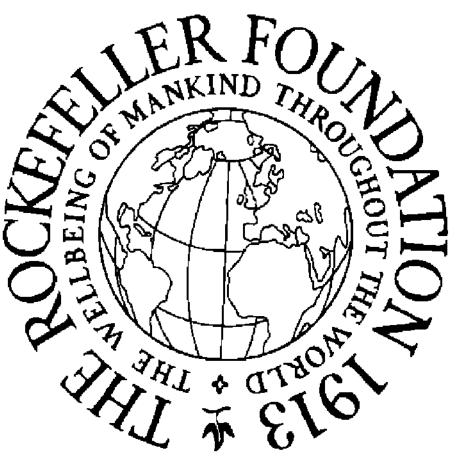
And finally, a major African project will modernize the compilation of information from standard statistical sources, remote sensing, and electronic information systems for the identification of the physical, biological, and socioeconomic constraints on agricultural production



Collecting seeds from wild rice varieties wherever they can be found is part of a worldwide effort to preserve the genetic diversity of important food crops Seeds and other germ plasm material collected yield genes that, potentially, can be used by scientists using plant breeding and new biolechnologies to create improved plant varieties Because plant pests and diseases continuously evolve to overcome plant resistance, and do so at a much faster rate than plants evolve, the need for improved varieties is unending The Foundation is one of 39 donor organizations in the Consultative Group on International Agricultural Research, which supports this work



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Editing was completed (above), and Local Heroes, Global Change, a four-part public television series was broadcast this year to give Americans a better understanding of the developing world and the global challenge of hunger Policies affecting trade, aid, and debt received particular attention in the video and in collateral print materials that have been used extensively by school, church, civic, and other groups across the country. The Foundation was one of a number of funders of the project. in Eastern and Southern Africa. The region is too vast for current macrolevel analytic methods, and information on water, soil, and other constraints is essential to guide research and the application of farming technologies.

Leguminous plants—beans, peas, peanuts, and alfalfa, for example incorporate certain bacteria into their root structures and form symbiotic relationships in which the bacteria convert atmospheric nitrogen to soluble forms that can function as essential plant nutrients. Cereals and many other important crops do not.

If genetic engineering can be used to introduce symbiotic nitrogen fixation into non-legume crops, it could be one of the most significant contributions of biotechnology to agriculture. It would substantially reduce the need for fertilizer derived from non-renewable fossil fuels. And by helping to wean modern agriculture from its excessive dependence on such fertilizer, millions of peasant farmers who cannot afford commercial fertilizer would benefit.

During the past year, results from earlier Foundation-supported work suggest this goal may be less difficult to attain than most scientists have envisioned. This work is under way, with Foundation assistance, at England's University of Nottingham, the Australian National University in Canberra, and the Chinese Academy of Sciences' Institute of Botany in Beijing. The three laboratories will exchange materials, try to replicate one another's results, and use selection and genetic engineering strategies to advance toward effective symbioses involving cereal plants. The Center for Nitrogen Fixation Research in Cuernavaca, Mexico, is also collaborating in this effort.

• 1

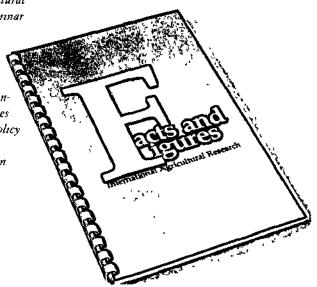
Other appropriations under the Foundation's guideline to apply biotechnology to developingcountry food crops include support for two groups of Mexican scientists working with the Monsanto Company to effect the first no-cost transfer of a proprietary, bioengineered trait-disease resistance-to a potato variety important in developing-world agriculture; and funds enabling scientists at the John Innes Foundation in England to use biotechnology techniques to capitalize on earlier work by creating genetically engineered maize plants resistant to a virus causing severe yield losses in Africa.

Seventeen scientists from around the world and 35 journalists, mostly from the US, participated in a three-day media seminar this spring in Annapolis, Maryland, on the latest advances in international agricultural research and the environment The seminar quickly covered the basics in Facts and Figures and then worked through individual presentations on research in progress and newly completed It was a cooperative effort of the Communications Office and Agricultural Sciences division and the International Food Policy Research Center to increase public understanding of world food production During the year, one of the Foundation's biotechnology career fellows, Sheikh Riazuddin, succeeded in developing a means for genetically engineering chickpea plants, an important food crop in Ethiopia, Pakistan, India, and other developing countries. Following his first success in using bacteria to transfer genes between plant varieties in Dr. Milton Gordon's

... the bacteria convert atmospheric nitrogen to soluble forms that can function as essential plant nutrients.

laboratory at the University of Washington, Dr. Riazuddin is continuing the work in his own laboratory at the University of the Punjab, in Pakistan.

A \$1.2-million program of grants and staff technical assistance to assist China in reestablishing its national crop germplasm conservation program was concluded successfully this year with the beginning of operations in the new plant



gene bank at Beijing. China is the country of origin for the soybean, cabbage, onion, peach, and other crops, so the new gene bank has important international implications. The new facility maintains 180,000 varieties of 294 different crop species stored at -18° C., and plans call for increasing this to more than 400,000 varieties within five years.

Nineteen-ninety was the final year in an international campaign to vaccinate developing-world children for six common diseases: measles, diphtheria, pertussis, tetanus, polio, and tuberculosis. Begun in 1974 when less than five percent of the children had been vaccinated, the campaign had a goal of universal childhood immunization, technically defined as 80 percent vaccinated. Statistical compilations will not be completed until 1991, but indications are that goal was reached, or very nearly so.

With attention focused this year on sustaining universal childhood immunization, the 1990 U.N. summit on children called for accelerated development of "The Children's Vaccine"—a one-dose, oral vaccine effective against all the major viral and bacterial diseases of childhood, which would remain stable without refrigeration, could be given early in life, and would be affordable for developing countries.

If reaching the ideal for 20 or so diseases is problematic, there is a strong consensus that major strides in this direction are achievable, and a flurry of meetings around the world brought together funders and experts in the field to plan an umbrella organization that will launch an international research and development drive, beginning in 1991.

Even the six vaccines used in the 1974-90 campaign all have limitations presenting special problems in much of the developing world. Five are injected, which in many areas of the world puts children at high risk of infection from nonsterile needles.

The report notes that good health is both a development objective and a factor driving development, and that health in developing and industrialized countries is interdependent.

To get all six vaccines, a child must make five separate visits to a physician or clinic, significantly reducing the numbers of children who complete the course of immunization, and all of the vaccines must be refrigerated until used.

Foundation support for this new effort builds on years of funding and staff participation in a range of vaccinology programs, including the World Health Organization's vaccine development program, the transfer of new vaccine production technology into the developing world, and the Task Force for Child Survival, which has served as a coordinating device for the justcompleted immunization campaign and is co-sponsored by WHO, UNICEF, the World Bank, the U.N. Development Programme, and the Foundation.

Another take on health—as a dimension of national development generated attention around the world this year as the Commission on Health Research for Development issued its report and recommendations and prepared to launch an international task force for follow-up action.

The independent Commission, created in 1987 and chaired by John R. Evans, who also chairs the Foundation's Board of Trustees, produced a detailed strategy and case for country-specific research that can inform decision-making on programs and policies to protect and improve the people's health and to use the limited resources for health most effectively—what it termed Essential National Health Research. Such research is not limited to biomedical studies but emphasizes epidemiological, operational, and other health sector inquiries, socioeconomic determinants of health and the health effects of development in other sectors.

The report notes that good health is both a development objective and a factor driving development, and that health in developing and industrialized countries is interdependent. The report presents a comprehensive picture of health research activity and sources of funding worldwide, and identifies



The growth, bealth, and bealth expenses of 640 children in Manila are being monitored in an immunization study by staff from the Clinical Epidemiology Unit at the University of the Philippines System medical school—one of 27 such units the Foundation is helping to establish at medical schools in 16 developing countries This and other studies under way in these units have been designed to produce information that health officials can use in creating programs and policies to use scarce medical resources effectively and wisely priorities for attention that are currently neglected.

The Commission recommends that developing countries invest at least two percent of their national health expenditures in health research and that development assistance agencies commit at least five percent of their health project aid for essential national health research and research capacity building in the developing world.

Essential national health research and research capacity building along the lines recommended by the Commission is the mission of the Foundation's International Clinical Epidemiology Network (INCLEN). For 10 years, INCLEN, as the Network is known, has been training cadres of physicians and other professionals to form and staff Clinical Epidemiology Units (CEUs) in 27 medical schools in 15 developing countries. Epidemiology is the core discipline—a science dealing with the incidence, distribution, and control of disease in populations—but health economics, biostatistics, and the social sciences are also represented. Research in these units is now producing information essential to understand the countries' most serious, large-scale health problems and to devise costeffective measures and policies to control or overcome these health problems.

Faculty members staffing the CEUs have been trained at five universities in the industrialized world. In 1990, however, INCLEN began to shift the responsibility for training from these universities to the CEUs themselves. In addition to continuing their own research efforts, CEU personnel will begin helping other medical schools in their regions to establish similar research units, and will be training faculty from these schools to staff the new units.

The newest element in the Foundation's efforts to help developing countries increase their capacities to create research-based health strate-

Research in these units is now producing information essential to understand the countries' most serious, large-scale health problems...

gies and policies are national epidemiology boards in Thailand, Mexico, and Cameroon. These boards plan and fund policyrelevant research and provide advice, based on such research, to their countries' health policymakers.

In providing continued support this year for the advisory board in Mexico, the Foundation facilitated its first "debt swap." Such arrangements enable developing countries to use their own currencies to reduce external debts owed in harder currencies while simultaneously enhancing external investment. Working with the Fundación Méxicana Para La Salud, which arranged the transactions, the Foundation was able to increase support for the epidemiology advisory board by approximately 70 percent above the original level of the grant.

Twenty-one years ago, the Foundation began supporting field trials of NORPLANT, a contraceptive implant that releases the hormone progestin over a period of five years to inhibit ovulation. The Foundation's support for study and evaluation of NORPLANT has continued without interruption, and today this contraceptive system, approved by 16 countries, is being used by more than one million women, mostly in developing countries.

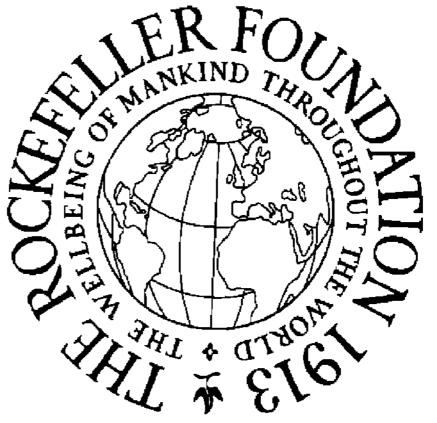
This year, the U.S. Food and Drug Administration approved NORPLANT for use in the United States—the first new contraceptive method in this country in 30 years and Sheldon Segal, the Foundation's director for Population Sciences, received the Arthur and Edith Wippman Scientific Research Award of the Planned Parenthood Federation for his contributions as the originator of implant contraception and co-developer of NORPLANT.

This year, too, the Foundation's trustees approved a major appropriation to continue an international post-marketing field study on NORPLANT with an early alert system for unexpected side effects or user complaints.

Funds are also included for field studies in China, Kenya, and Egypt to improve family planning services and to introduce advanced versions of NORPLANT and improved IUDs. If a contraceptive vaccine for women being tested in India proves effective, it too may be introduced in these sites. Developed by G. P. Talwar with Foundation support, the vaccine has passed initial safety tests, and its contraceptive effect can be reversed by not taking an annual booster shot. Like vaccines also being tested in the United States and Australia, the Indian vaccine causes the woman's immune system to produce antibodies that block a messenger hormone produced by fertilized eggs. Without this signal, implantation cannot take place and menstruation occurs as usual. This failure of fertilized eggs to implant occurs naturally about one out of three times.

The South-to-South network of 12 developing-country population scientists was formed with Foundation funding in 1986. A wide range of collaborative research and training projects in reproductive health and fertility control have been conducted under the network's auspices in Brazil, China, the Dominican Republic, Egypt, India, Kenya, Mexico, Nigeria, Thailand, Zambia, and Zimbabwe.

This year South-to-South established a nonprofit organization to administer its finances, maintain a data analysis unit, organize meetings, provide purchasing services, initiate training activities, coordinate its ventures with other groups, and diversify its funding base. The new entity is based in Salvador, Brazil, and its executive director is O. A. Ladipo of Nigeria, on leave from the University of Ibadan, where he is professor and chairman of the department of obstetrics and gynecology.



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This rapid, inexpensive new "dipstick" test for AIDS is being developed for eventual manufacture and use in the third world Results from laboratory testing and field trials have been independently confirmed, and the detailed documentation needed by a manufacturer is being prepared.

Chemicals embedded in the comb change color when exposed to antibodies for the HIV-1 or HIV-2 AIDS virus in human blood. Cost per test, when the product is manufactured in a developing country, is expected to be a fraction of the cost of conventional tests, and testing takes 10 minutes rather than two bours.

The new technology is primarily intended for use in screening blood used for transfusions. It is being developed by the Program for Appropriate Technology in Health, in Seattle, with support from the Foundation and the International Development Research Centre of Canada.

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The Foundation is participating with a large group of other donor organizations in efforts to help African countries increase female enrollment in school, which lags behind that of African males and behind that of females in any other region of

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the world.

There are now proven links between mothers' formal education and their children's health and readiness for learning, between female education and reduced fertility, and between female education and productive self-employment both on and off farms. In Africa, however, school participation of females con-

Only 10 percent of African females in the appropriate age group attend secondary schools.

tinues to lag behind that of other regions of the developing world and behind that of African males.

In the primary school years, repetition and dropout rates are higher for females, and female achievement scores tend to be notably lower on average. But in succeeding years, the gap between male and female school participation is especially severe. Only 10 percent of African females in the appropriate age group attend secondary schools.

Building on preliminary work begun last year, a substantial appropriation was approved this year to underwrite the Foundation's participation as convener of the representatives of 19 donor agencies concerned about the educational plight of African females. The group coalesced as a subcommittee of the Donors Task Force on African Education, initiated by the World Bank in 1988.

The subcommittee is examining what would enable countries to design interventions, including practical measures that can increase the willingness of parents to send their daughters to school and keep them there; ways of enhancing the numbers, quality, and professional standing of female teachers; and methods to combat the incidence of malnutrition in young girls.

The particular viewpoints and interests of individual donors on the overall issue differ widely, but a common commitment is emerging to help African countries build their own capability for devising and implementing policies to improve education that are sensitive to fiscal, demographic, and cultural realities.

The Foundation's funds will be used in four ways. One, to help support a multi-donor research grants program in Africa to explore the constraints and opportunities in accelerating African female education in specific country settings. Second, to ensure the participation of African scholars in projects analyzing existing large-scale data sets relevant to educational planning. Third, to assist the professional re-integration of a small number of African educational scholars who are returning home from doctoral studies abroad and have interests relevant to the field. And finally, to support a collaboration between government and educational leaders on policy and research topics key to improving female educational opportunities.

The Arts and Humanities

The Foundation's Arts and Humanities program seeks to encourage creative artists and scholars whose work can advance international and intercultural understanding in this country. Of particular interest is the flow of art and knowledge between developing-world cultures and the United States, and in increased opportunities through the arts and humanities for U.S. population groups whose ethnic and cultural roots are in the developing world.

During 1990, the Arts and Humanities division expended slightly more than \$1 million to explore future program possibilities in environmental ethics and in other applications of the arts and humanities that might foster the range of

Of particular interest is the flow of art and knowledge between developingworld cultures and the United States...

understanding and insight needed to help meet and resolve today's challenges to the global environment.

Yale University, for example, received major support to establish an interdisciplinary and comparative program in agrarian studies for U.S. and developing-world scholars in such disciplines as history, political science, literature, philosophy, economics, and anthropology. Plans are to build strong links with developing-world institutions, starting with existing faculty ties to universities and research groups in South and Southeast Asia, China, and Brazil.

The Foundation's Humanities Fellowships annually enable 60 scholars at 26 institutions to pursue study and research that can further understanding of contemporary social and cultural issues and extend international or intercultural scholarship. Six new sites were added to the participating institutions this year: an urban cultural studies program at the City College of the City University of New York; the Research Institute for Inner Asian Studies at Indiana University; the Institute for Advanced Study and Research in the African Humanities at Northwestern University; the Department of American Studies and Department of African-American Studies at the State University of New York at Buffalo; the Chicano Studies Research Center at the University of California, Los Angeles; and the Program on South Asian Civilizations at the University of Chicago.

Over the past four years, the Foundation has supported the creation and dissemination of new work in the performing arts. The Multi-Arts Production Fund and the New Forms: Regional Initiative are key programs designed to assist artists and arts organizations across the country to undertake innovative projects representing the varied cultures of the nation and world.

This year, another major appropriation is being used to support selected domestic arts festivals celebrating cultural commonalities and

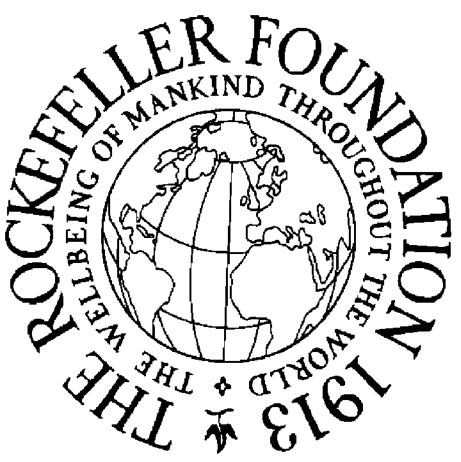


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Details and objects from Tropical Rainforests: A Disappearing Treasure, can only bint at the breadth and depth of the Smithsonian Institution exhibition that is touring the United States. With support from the Rockefeller and MacArthur foundations, Latin American scholars and museum professionals are creating versions of the exhibit in Spanish and Portuguese for a 10-nation tour of Central and South America.



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An exhibition of 400 paintings, pieces of sculpture, and other works reflecting 30 centuries of Mexican art opened this year in New York, and will go on next year to Los Angeles and San Antonio To augment the exhibition and create a deeper understand ing of Mexico, its people and culture, the Foundation has assisted an array of simul taneous educational and arts programs in the three cities-including concerts of Mexican regional music and dance, retro spectives of Mexican cinema, stage adaptations of classic Mexican drama, folk art demonstrations and exhibits and in New York a photography exhibition whose catalog is depicted above

differences Varied festival objectives have included presenting work in an interdisciplinary context, highlighting the diverse artistic developments of a particular cul ture, comparing works of different cultures within a specific arts discipline, celebrating cultural achievement within a regional context, and providing an international forum for artistic interchange

The American Dance Festival's International Choreographers Workshop draws promising choreographers from abroad to Durham, North Carolina, for an intensive six-week workshop Foundation support, in partnership with the U.S. Information Agency (USIA), has enabled the program to include participants from China, the Soviet Union, Southeast Asia, Africa, and Latin America The Workshop helped in the establishment of China's first moderndance program and company, the Guangdong Chinese Modern Dance Company Similar initiatives are under way in Argentina, Venezuela, Ghana, Zaire, and Soweto

The Foundation has also supported festivals that seek to embed their activities in the cultural life of the community, as exemplified by the American Festival Project This three-year project is administered by Appalshop in Whitesburg, Kentucky, in conjunction with six other companies representing diverse cultural heritages. Seven festival sites are planned across the country and each will include local artists and community members reflecting the specific cultural concerns of the host regions

The Workshop helped in the establishment of China's first modern dance program and company...

The Foundation launched National Video Resources (NVR) early in 1990 to help increase the public's access to videocassettes of independent feature films, important documen taries, visual and performing arts programs and experimental film and video For despite the widespread availability of videocassette recorders and the numbers of independent producers working throughout the world, most of the best works offering exposure to new ideas and other cultures are not easily available at affordable prices

Projects started by NVR in its first year include

 assisting the Walker Art Center in Minneapolis to develop and test a model video rental store in the museum shop for independent and multi cultural videos,

• curating the *Green Video Collec tion* (35-50 environmental tapes, including features, documentaries, music videos and children s pro ductions) and underwriting its initial direct marketing campaign, and

• supporting promotional efforts for the release on videocassette of eight feature films produced by African filmmakers with special emphasis on reaching universities, colleges, and public libraries

NVR has also underwritten publication of both *Independent*



Producer's Guide to Distributors and Alternative Visions Distributing Independent Video in a Home Video World

The Foundation also funds. Intercultural Film and Video Fellowships, an annual competitive program supporting innovative media artists whose work explores and interprets cross cultural and environmental issues, both interna tionally and within the United States In 1990, the Foundation launched an additional aspect Stage II Awards designed to aid in the completion and promotion of such earlier Fellowship projects as Trinh T Minh-ha's experimental documentary "Surname Viet, Given Name Nam," and Charles Burnett's feature film 'To Sleep with Anger'

Each year, the Foundation also supports selected major media

A view of the Jenny Holzer installation that earned her the prize for best pavilion at the Venice Biennale Exhibition of this work was made possible by the Fund for US Artists at International I estivals and Exhibitions co supported with the Pew Charitable Trusts the National Endowment for the Arts and the US Information Agency The Foundation also belped make possible the first exhibition at the Biennale of sub Saharan African art a presentation curated by the Studio Museum in Harlem and based on its show Contemporary African Artists Changing Tradition productions or series dealing with intercultural understanding and intended for a national public television audience. This year, funds were approved for research and development of a comprehensive documentary series, planned by Media Resources Associates, about the history and culture of Native Americans.

Native American film professionals are to have key roles in developing the series, and it will draw upon the best of recent

"...the arts' power to heal and help, teach and question is needed now more than ever."

scholarship, much of it by Native Americans, in such fields as literature, history, anthropology, religious studies, and art history. Staff will also search out photographs, film footage, and sound recordings that have been preserved in the National Archives, the Library of Congress, and the National Parks Service, as well as in tribal and state archives and regional museums. All the information from the film series is to be incorporated by the new National Museum of the American Indian into its database and will be available to scholars and the public.

Two other initiatives focus on Chicano filmmaking. A grant to the Latino Consortium will support

research and development of "The Story of the Chicano Civil Rights Movement," intended for national public television. This four-part series will portray the political and cultural "Movimiento" of the late '60s and early '70s, to examine such issues as the struggles for educational reform and political empowerment, as well as the explosion of artistic expression inspired by these events. The Foundation also supported a conference at Colegio de la Frontera at Tijuana. entitled "Encuentro Quinzeañero," to examine the contribution made by Latino/Chicana and Mexican women, working in film and video. on both sides of the border. This gathering also serves as a pivotal model for the Foundation's longrange efforts to internationalize its film and video initiatives.

Other grants and fellowships were also awarded in 1990 through a number of ongoing competitive arts and humanities programs. These include:

• 15 grants encouraging museums to explore innovative ways of presenting non-Western and American minority cultures. For example: a Polarities touring exhibition of contemporary Cuban art, and complementary activities promoting artist-to-artist dialogues between North Americans and Cubans.

 13 grants, with NEA co-funding, enabling regional organizations to assist emerging American performing artists to develop new, interdisciplinary works and present them before audiences in their own





Members of Australia's Woomera Mornington Island Culture Team were only a few of the more than 1,400 artists who participated in the 1990 Los Angeles Festival In addition to dance, the festival featured music, film, video performance, theatre, and the visual and literary arts The artists were drawn from China, Colombia, Soviet Asia, Cambodia, and 20 other countries on "the Pacific rim, to perform and exhibit in 36 locations in the city during the 17 day Festival The Festival, which was assisted by the Foundation, presented both traditional and nontraditional genres under one umbrella juxtaposing for example, ibe ritual performances of Korean shamans with the work of a Korean filmmaker dealing with the place of ritual and belief in the lives of ordinary people A series of meetings of scholars that began at the Festival continues to analyze and critique the various models of presentation and consider the future of intercultural presentation



Jazz composer Hannibal Marvin Peterson's new one-bour work, Africa Portrait, was performed this year, for the first time, at Carnegie Hall by the American Composers Orchestra The work is scored for a full symphony orchestra, a chorus, a four-piece jazz ensemble, a male blues singer, a female vocalist, and a guiro player. Peterson was completing a residency for jazz composers co-funded with the AT&T Foundation and the National Endowment for the Arts parts of the country. Beginning in 1991, the participating regional arts organizations will be able to make funds available to artists from all 50 states and Puerto Rico.

• 31 grants, via the Multi-Arts Production Fund, in support of innovative performing-arts projects that explore diverse cultural heritages, ranging from funds to the Baltimore Opera for developmental workshops of "Amistad," composed by Anthony Davis with a libretto by Thulani Davis, to a grant to San Jose Taiko for a collaborative music/movement project.

And finally, public controversy continued throughout this year over the role of the government in supporting controversial art, as noted in the President's Review. Beyond the Foundation's actions described there, the American Assembly created a forum for reasoned discussion and debate on the subject by professional, business, academic, and community leaders from across the country, representing a broad range of views and interests.

The role of government in the arts was addressed in seven local assemblies-in Chicago, Dallas, Kansas City, Los Angeles, Miami, Minneapolis, and Pittsburgh—and a national assembly in November. This program and its report (The Arts & Government: Questions for the Nineties. New York: The American Assembly, Columbia University, 1990.) were co-funded by the Foundation and the AT&T Foundation. The findings and recommendations speak to the NEA and its programs, state and local arts support, advocacy and political action, cultural diversity and government support, international cultural policy, tax policies, and the arts in education.

The final lines of the Assembly's report are particularly compelling: Throughout the discussions, Assembly participants were well aware that in such a climate of scarcity, the structures that sustain the arts will need to be stretched even farther if current levels of service to the public are to be maintained. Imagination and ingenuity will be in particular demand. But the seriousness of the outlook only served to reinforce the conviction, evident throughout the discussions, that the arts' power to beal and help, teach and question is needed now more than ever.



Triumph of the Hands, one panel of Judith F Baca's large-scale work during its display this year in Moscow's Gorky Park. At each stop on a 10-nation tour, assisted by the Foundation, local artists are adding to Ms. Baca's panels on war, peace, cooperation, interdependence, and spiritual growth.



When neighborhood based, self help community development corporations borrow money and rehabilitate blighted, multi-family housing for low-income families, the result is neighborhood and human revitalization with staying power Such successes, reflected in this New York neighborhood and others like it all across the country, prompted the Foundation to join with six other foundations and The Prudential in a \$62 5-million new initiative to accelerate the pace, scale, and impact of community development corporations in 20 cities



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New Program Highlights

Equal Opportunity

ver the past 25 years, community development corporations (CDCs) have proved themselves vital and enduring vehicles for neighborhood revitalization and empowerment in inner-city areas. Directed by people living and working within their boundaries, the more than 500 wellestablished CDCs in this country have gained distinction for their successes, creating new and renovated housing and business properties as well as building leadership, capital, and power in their communities

The Ford Foundation has been a pioneer in sparking and sustaining the community development movement, but virtually all these organizations operate with a mix of public and private funding Today, federal support for CDCs has diminished while support at the local level from the public and private sectors is steadily growing. This local momentum signals an important opportunity to accelerate the pace, scale, and impact of the CDC movement by strengthening mature CDCs, nurturing those just emerging, and helping them build their organizational capacities and expand the range of their programs

To seize this opportunity, a new private-sector partnership was created in 1990 to begin operations early in 1991 The National Community Development Initiative will be capitalized with more than \$62 5 million in grants and program related investments, which will eventually generate approximately half a billion dollars in new funding for CDCs across the country. The Initiative is being created and funded by The Prudential and seven foundations These funds will be used by two national intermediaries, the Local Initiatives Support Corporation (LISC) and the Enterprise Foundation. LISC and Enterprise will assist CDCs in 15 to 20 cities to grow in scope and competence and to achieve higher levels of productivity and impact in revitalizing their communities through the development of housing and other capital projects.

In addition, the Federal Home Loan Mortgage Corporation (Freddie Mac) is cooperating to create a secondary market program for bank loans that, for the first time, will give CDCs regular access to the nation's capital market and ensure the availability of long-term, fixed-rate financing for community housing. This program will be administered by the Local Initiatives Managed Assets Corporation (LIMAC). By enabling LIMAC to purchase as much as a \$100 million in long-term, fixed-tate mortgage loans generated by banks for CDC and other lowincome housing projects, Freddie Mac will, in effect, facilitate the recycling of the original funds for renewed community investment.

NCDI core funders

The Prudential	\$15,000,000
Lilly Endowment	15,000,000
The Rockefeller Foundation	15,000,000
The William and Flora Hewlett Foundation	6,000,000
Knight Foundation	5,000,000
The Pew Charitable Trusts	5,000,000
John D and Catherine T MacArthur Foundation Surdna Foundation	1,000,000 500,000

On another program front, the Foundation launched a systematic effort to share findings from the rigorous evaluation by Mathematica Policy Research of welfare-to-work programs under the Foundation's **Minority Female Single Parent** program (MFSP). The study involved 4,000 women-most on welfare—in Atlanta, Providence, San Jose, and Washington, D.C. They sought special comprehensive job services offered by community organizations in these cities, funded by the Foundation, and agreed to be randomly assigned to the program or a control group.

First follow-up findings of how the women fared 12 months after application to the program cast serious doubt on whether the most commonly used welfare-to-work strategies really work for lowincome mothers. These schoolingfirst strategies steer welfare recipients first to testing and remedial education, and only later into jobs or job training once they reach some level of educational proficiency.

The MFSP findings point to the promise of an alternative approach that starts job training immediately. There was a 27 percent improvement in the employment rate and a 47 percent increase in earnings for women who were in this program, compared with the control group. The program was developed by the Center for Employment Training (CET) in San Jose. No employment or earnings gains were found in the other cities, where the programs used the schooling-first approach. Key principles of the San Jose training-first approach include:

- open to all—no testing or academic qualifications;
- begin with hands-on, day-long training tied to specific work skills required by industry;
- individualized, competencybased training;
- basic education embedded in job training;
- child care, counseling, and other support services; and

businesslike style and operations.

The cost of this training-first program, about \$3,500 per participant, compares favorably with the cost of the schooling-first models in the study. Child-care subsidies and

... findings point to the promise of an alternative approach that starts job training immediately.

support services were important elements in all four programs.

Longer-term follow-up studies, at 30 and 60 months, will look at retention of the positive impacts attributed to the training-first approach, and search for lateappearing effects from all the programs, as well as other issues.

The study has major implications for federal job-training and poverty efforts, especially for new state welfare-to-work programs under the Job Opportunities and Basic Skills (JOBS) program, a major stateadministered initiative receiving up to \$1 billion a year in federal support. The Foundation is undertaking broad dissemination of the MFSP findings in the hope that agencies planning education and training programs to help people get jobs will conduct further tests as well as consider these initial findings as they decide how to organize their services.

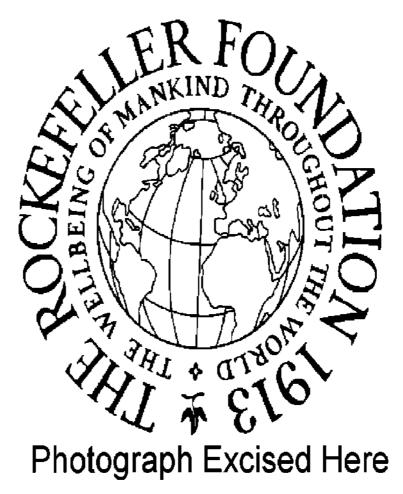
Representatives from the six community planning and action projects supported by the Foundation—in Boston, Cleveland, Denver, Oakland, San Antonio, and Washington conducted two institutes during 1990 in conjunction with their efforts to mobilize the public and private sectors in their cities to understand and attack conditions contributing to persistent poverty.

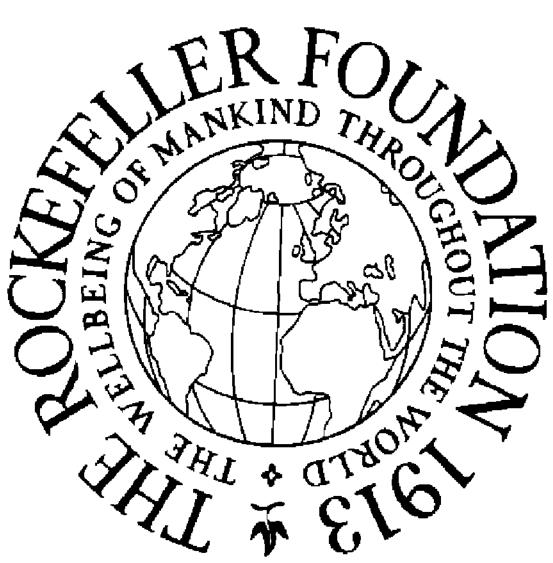
In Oakland, the topic was school reform, including discussion of Dr. James Comer's school improvement approach, which the Foundation is helping bring into wider use (see page 43). The Oakland institute included school superintendents from Denver, Oakland, and San Antonio, as well as school board members, county supervisors, and city council members from several of the participating cities. The fall institute, in Boston, explored how community groups can work with the media in "Mobilizing Political Will: Addressing the Political Agenda." The projects' representations for this institute were expanded by state senators, academicians, documentary film and video directors, senior newspaper



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The Center for Employment Training in San Jose has pioneered an approach to job training and placement for minority female single parents that embeds basic education in the job training and achieves results that are drawing national attention These results are emerging from an ongoing, rigorous evaluation of a multi-site, welfareto work program, both of which have been supported by the Foundation





Photograph Excised Here

editors, and other news media professionals.

Complementing the Community **Planning and Action Program** (CPAP), the Foundation also began supporting the start-up of the Fair **Employment Council of Greater** Washington, which is pursuing new strategies to expand equal employment opportunities in the D.C. metropolitan area. The Council, and a parallel effort in Chicago, will use employment discrimination audit methodology developed by three Foundation grantees—the Urban Institute's project on persistent poverty, the Greater Washington Research Center's community planning and action project, and the Washington Lawyers Committee for Civil Rights Under Law. Basically, it calls for testing and direct observation of the employment process rather than statistical data analyses that the courts have now rejected. The prototype has been tested in a study for the federal government's General Accounting Office, and a 1990 grant is underwriting further development and application of the employment audit methodology by the Urban Institute.

The objective is creation of an "on-the-shelf" technology for use by all levels of government and by private organizations interested in enforcing anti-discrimination employment laws. However, since Washington and Chicago are also included in a 25-city housing discrimination audit being conducted for the federal government by the Urban Institute, the Foundationsupported project will also permit comparisons of the data sets that could shed new light on the interaction of employment and housing discrimination.

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The Washington CPAP project also announced and disseminated results from a Foundation-funded study of drug trafficking in D.C., which was conducted for the project by the Rand Corporation. Among the controversial and disquieting findings from the study, Money from Crime, is evidence that a large majority of young drug sellers simultaneously hold regular jobs. Other findings suggest that involvement in drug selling is much more widespread than previously thought, and that those selling drugs part-time netted on average \$24,000 a year. This was typically more money than they earned from their full-time jobs.

The Social Science Research Council, as part of its Foundationsupported effort to mobilize researchers around the study of issues of the underclass, has secured additional funds from the Harry Frank Guggenheim Foundation that allow 12 ethnographers who are already working on the ecology of crime and drugs in five cities to collaborate, collect new data, and evaluate their work in a comparative framework.

In addition, the Foundationsupported project on the underclass at the Joint Center for Political and Economic Studies (JCPES) and the

Among the ... findings... is evidence that a large majority of young drug sellers simultaneously hold regular jobs.

mayors of the 10 cities with the largest populations of blacks and with heavy concentrations of poverty have launched an initiative to share information, experience, and strategies for implementing anti-drug efforts. The first meeting drew mayors or key members of their staffs, including police chiefs, and heads of drug abuse prevention programs, from nine of the front-line cities. This initiative grew out of JCPES briefings for the U.S. Conference of Mayors and will seek to help the mayors find ways to focus more state and local resources on comprehensive, citywide drug prevention and treatment activities and to link public agencies more directly to existing networks of communitybased treatment facilities. The advisory committee for this effort includes the mayors of Chicago, Houston, and Philadelphia.

JCPES also conducted a sixth round table, co-sponsored by the U.S. Department of Health and Human Services, that brought together researchers and policymakers to review new findings on a

Just a few of the posters used in the adolescent pregnancy prevention project of the Children's Defense Fund that have captured the attention and thinking of teenagers nationally. The Foundation helped establish the Fund in 1973, and has been assisting the adolescent pregnancy prevention project for the past seven years.

broad range of behaviors associated with persistent urban poverty, including long-term welfare use, out-of-wedlock childbearing, and criminal activity.

Other returns on the Foundation's investments in programs and projects seeking to understand and attack root problems of persistent urban poverty were also visible in 1990:

• Foundation-funded perspectives on the underclass were clearly reflected in descriptions used in the President's 1991 federal budget document and a General Accounting Office report, *The Urban Underclass: Disturbing Problems Demanding Attention*, which also highlights a number of the Foundation's grantees and their programs.

An American Enterprise Institute seminar attracted 40 senior federal executives to explore the effects of poverty, drugs, crime, and underclass lifestyles on children and on institutions providing education, health care, foster care, and child care. Much attention centered on whether de-categorizing existing services or establishing new services would bring more effective outreach to vulnerable children and families.

And Morehouse College's Forum on African-American Males, which has also received support from the Ford Foundation, attracted researchers and policy analysts and activists to a first conference considering the relationship of the drug problem to the status of black men and then to a second meeting to consider educational and economic factors. Morehouse also produced the first issue of *Challenge*, a journal focused on these and other issues affecting African-American males.

Under the Foundation's guideline for protecting basic rights, start-up funds were provided for the new Poverty and Race Research Action Council that emerged from a developmental effort assisted the previous year. It brings civil rights, civil liberties, legal services, and poverty advocacy groups concerned with minority opportunity together

Much attention centered on whether de-categorizing existing services or establishing new services would bring more effective outreach...

for the first time, nationally, to reach beyond their special interests and identify common target areas for litigation and/or policy advocacy, and to raise and channel funds for supportive data collection and policy analysis and for dissemination of the resulting information.

And finally, the American Civil Liberties Union Foundation received a major stabilization grant under a program already assisting the NAACP Legal Defense and Education Fund, the Lawyers Committee for Civil Rights Under Law, the Mexican American Legal Defense and Educational Fund, and the Puerto Rican Legal Defense and Education Fund. The objective is to help these organizations develop and implement financial and program strategies reducing their dependence on annual support of the kind previously provided by the Foundation.

School Reform

t the close of 1989 the Foundation launched a program to improve public education for children from poor families. It targets some eight million children who are at risk of failure or dropping out because of an assortment of problems, not the least of which is the widening chasm between schools and the cultures of children raised outside society's mainstream.

Much of the Foundation's effort is geared to help parents and communities create the conditions, climate, and demand for the reform of schools serving at-risk children, and to devise training and dissemination methods that will enable reform-minded educators to make the best practice the standard practice.

A principal thrust of the program is to broaden the reach of Dr. James



Part of the story of how to gain parental and family involvement in schools is told through scenes at the annual Father's Day breakfast of the Berkshire Elementary School in Prince Georges County, Maryland featured in one of the 14-part, how-to videos the Foundation is preparing to accelerate widespread adoption of Dr James Comer's School Development Program Comer's philosophy and of his School Development Program (SDP), a tested approach stressing children's psychological preparation for school and emphasizing the collaboration of school staff and parents in children's academic and social development.

Production of a 14-part, how-to videocassette series on SDP was nearly completed in 1990. The series conveys in detail the principles of SDP and then guides the viewer, step by step, through implementation. This is done with the images and voices of parents, teachers, and principals experienced with the SDP process. At year-end, attention was being given to devising strategies for the most effective use and distribution of this series and its accompanying manual

In response to the soaring demand for SDP training, Dr Comer and his staff are also creating an institute—jointly funded by the Foundation and the Melville Corporation—to equip senior officials from large school districts to conduct the kind of training for individual school teams that Dr. Comer formerly provided directly This training will be coupled with the video series and manual to further increase the speed at which SDP can be spread.

The Foundation is also assisting Dr Comer to introduce his philosophy into key to macro-education policy circles as well as microeducation practice. For example, the steering committee of the Education Commission of the State (ECS), comprised of governors and state education commissioners, devoted a significant portion of its December meeting to Dr. Comer's work. Committee members visited local SDP schools, viewed portions of the video series, and exchanged ideas with him. These and other efforts to reach education policymakers have been reinforced by substantial media coverage of his work.

Also with Foundation assistance in 1990, Howard University began working with the District of Columbia

A principal thrust... is to broaden the reach of Dr. James Comer's philosophy and of his School Development Program...

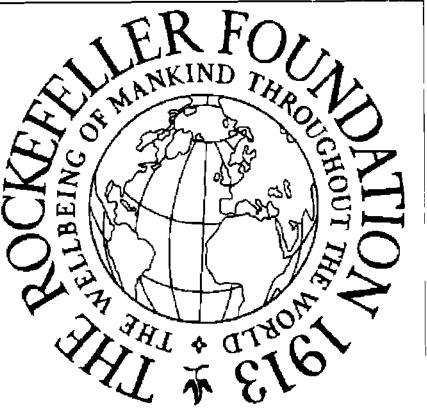
Committee on Public Education so that, by the fall, a dozen schools were involved in the SDP process. A second such partnership has been formed by Southern University and the New Orleans public schools

Southern Connecticut State University and the New Haven school system are collaborating on new courses for future teachers and on in-service training for teachers that incorporate SDP strategies and techniques Central State University in Ohio, which is creating a master's degree program in teaching, received Foundation support to develop SDP-type courses. Michigan State University and the University of New Mexico, with Foundation assistance, conducted initial summer leadership academies for school teams. Planning got under way to add a third academy in 1991, to be operated collaboratively by the Southern Educational Foundation, Virginia Commonwealth University, and the Richmond public schools.

In addition, a collaborative planning effort by the Institute for Educational Leadership, the Joint Center for Political and Economic Studies, and the McKenzie Group was funded to devise a strategy for identifying and preparing the next generation of urban school superintendents. Among the possible program ingredients is a training academy that would expose the candidates to many of the same issues and methods covered in the summer leadership academies.

The National Urban League, with a Foundation grant, selected and funded six local affiliates to begin mobilizing community support for school reform—in Austin, Flint, New Orleans, San Diego, Seattle, and Tacoma. Five are supported with Foundation funds; one is supported by the Melville Corporation.

A planning grant followed by a major school reform appropriation this year is underwriting a concerted effort in low-income Hispanic communities where language and cultural factors often create barriers



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A major dimension of the Foundation's program to benefit at-risk children is to help reform-minded educators to make the best practice the standard practice in public schools across the country to parental participation in their children's public schools. The Texas Interfaith Education Fund is collaborating with Dr. Comer, drawing on his SDP philosophy and its own experience in community organizing, to develop collaborative relationships among administrators, teachers, local pastors, community leaders, and parents as the cornerstone of school reform.

During 1990, responsibility for two pre-existing grant initiatives were transferred from Arts and Humanities to the School Reform program—Arts PROPEL and CHART. Arts PROPEL is a collaboration between Harvard University and Educational Testing Service to

The National Urban League ...selected and funded six local affiliates to begin mobilizing community support for school reform...

develop alternatives to standardized testing and other pupil-performance measures. The portfolio technique under intensive study and adaptation in this collaboration is illustrated at the right.

CHART is a network of collaborative projects to improve arts and humanities teaching and curricula in ways that foster multicultural and international understanding. Its sites include the school systems of Detroit, Los Angeles, Miami, New York, Philadelphia, Pittsburgh, St. Louis, San Francisco, Washington, D.C., and the states of Arkansas, Connecticut, New 1. S. Å.

Mexico, and South Carolina. The emphasis is evolving to encourage systemic change in the arts and humanities curricula and/or instructional philosophy of entire schools and districts. And collaboration will increase with other Foundation grantees to address the full spectrum of school reform issues, from effective school management to curricular and testing reform.

Students in the Arts Propel program engage in long-term projects in music, visual arts, and writing that allow them to exercise independent, critical thinking and to master skills and concepts rather than unconnected facts and procedures

The students keep portfolios of their work, which serve as records of their progress through the learning process. Portfolios may contain notes, drafts, sketchbooks, audio- or videotapes, personal statements, ideas for new work, rejected work, and assessment comments The portfolios thus enable teachers as well as students to regularly assess progress and to pinpoint difficulties and accomplishments.

This series of drawings was taken from the portfolio of Rebecca Yaffe, grade 9, Schenley High School Teacher Center, Pittsburgh. They are from a semester-long project, developed and taught by Karen R. Price, requiring creation of a self-portrait based on study of expressionist art





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New Program Highlights Other Interests and Initiatives

International Security

By year-end, the deadly potential inherent in the proliferation of nuclear, chemical, and biological weapons, and ballistic missile systems to deliver them, became terrifyingly real as the world prepared for war in the Mideast

Beyond that war, one of the next major tests of humanity's will and ability to keep the nuclear genie under control, if not in the bottle, will come in 1995 when an extension conference is held by the signatory nations of the 1970 Non-Proliferation Treaty. Perceptions of the primary role of the Treaty have changed since it was negotiated in the 1960s—from a means to prevent the United States and the Soviet Union from drawing more of their allies into the nuclear weapons club, to a means to put international pressure on a growing list of countries thought to have ambitions for nuclear weapons, to a means by which the security of non-nuclear countries might be reinforced by those with nuclear weapons. The two newer roles will be especially critical in the post-Cold-War uncertainties of the 1990s.

Until the Programme for Promoting Nuclear Non-Proliferation (PPNN) began operations in 1987, no entity actively supported the objectives of the Treaty system in the periods between quinquennial review conferences by disseminating reliable information or engaging in North– South dialogue about the Treaty and the technical and diplomatic issues of nuclear nonproliferation The PPNN has proved its worth in a variety of effective activities, particularly for international networking



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The central element of the organization is its Core Group of high-level experts from developing as well as industrial nations This cadre gives general guidance to the PPNN, pools and exchanges information, and promotes the Treaty within their own geographic areas and professional fields

A 1990 grant from the Foundation will help PPNN: 1. increase the role of developing countries in the oversight of its activities, 2. continue workshops for working level diplo mats from developing and developed countries; 3. hold some of these meetings in the developing world, and 4 continue with its collection, exchange, analysis, and dissemination of relevant information.

Another threat to the Nuclear Non-Proliferation Treaty—besides the lack of expertise among nations needed to keep the Treaty and the Treaty processes alive—is the clandestine trade in technologies and materials essential to produce nuclear weapons and ballistic missiles. Non-governmental watchdog groups like the Wisconsin Project on Nuclear Arms Control have proved to be effective weapons foi limiting this trade

Gary Milhollin, a professor with degrees in engineering and law, and

National Public Radio's correspondent John Ydstie was in Saudi Arabia in August as a member of the Pentagon's press pool sent to cover the aftermath of the Iraqi invasion of Kuwait At the outbreak of the crisis, he was the only radio reporter in the country, and his coverage was featured on NPR's news and information shows, which received renewed support from the Foundation this year founder of the Wisconsin Project, was instrumental in uncovering and then working with governmental agencies to curb export and brokering activities in Norway and West Germany involving nuclear materials. Similarly, the Project recently

The Overseas Development Council constitutes a bridge between the world of ideas and action...

issued a report showing how foreign assistance helped India build its new Agni heavy missile.

In many cases, companies are taking advantage of weaknesses in national export laws and gaps between one country's laws and another's. these gaps may widen in 1992, when the European Community (EC) abolishes trade restrictions among its members. A Foundation grant will help the Wisconsin Project continue its work on exposing trade in nuclear-weapon and ballistic-missile technologies, with a special focus on EC countries to encourage strengthening of their export laws.

Study and planning also began in 1990 on the idea of an independent agency that could, on a global basis, monitor and publicize the development, sale and transfer of arms, particularly weapons of mass destruction, and key weapons technologies. Responsibility and funds for undertaking the task and reporting back to the Foundation in the coming year were given to the New York University Center for War, Peace, and the News Media and its executive director, Robert Manoff.

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Special Interests and Explorations The Foundation's Special Interests and Explorations (SIE) fund is primarily used for grants to a small number of important projects that could otherwise not be assisted because they do not meet the funding guidelines of the Foundation's principal programs.

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The largest of the year's SIE grants went to the Overseas Development Council, which was established, in 1969, by the Ford and Rockefeller foundations to increase public understanding of the broad range of problems facing developing countries and to strengthen U.S. relations with the developing world.

ODC constitutes a bridge between the world of ideas and action by translating academic research and policy analysis into usable information and recommendations for policymakers through focused studies, publications, policy seminars, and active participation in policy debates. This latest grant is to assist ODC to refocus its programs over the next three years around " four themes: restarting global economic growth, promoting political pluralism and democracy, fostering development cooperation among donor and recipient nations, and promoting understanding in developed and developing countries of the linkages between development and the environment.

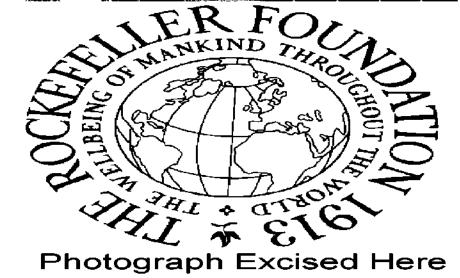
At the beginning of 1979, three years after the Grameen Bank was founded by Muhammad Yunus in Bangladesh, it was still a one-man

operation with less than 100 borrowers. But today Dr. Yunus and his staff of almost 10,000 lend over \$70 million annually to some 700,000 borrowers, virtually all of whom are landless women. As part of the Foundation's commitment to work with other U.S. foundations over the next several years in supporting the establishment of indigenous, independent philanthropic organizations in the developing world, a grant was made to help the Grameen Trust, of Bangladesh, promote the replication of its micro-credit and social development program in other developing countries. At the end of 1990, a number of other U.S. foundations and international donor organizations were also considering Trust requests for seed capital.

Another SE grant within this area of interest, to the Esquel Group



The public television documentary "Mandela—Free at Last" was produced with Foundation assistance by the Emmy Award-winning news series "South Africa Now," and is being distributed on videocassette



Foundation, is underwriting a feasibility study for the creation of an independent foundation that could promote social and economic development in Ecuador.

Other SIE grants included support for:

 continuation and expansion of Africa News Service, publishers of *Africa News* magazine, contingent upon the raising of matching funds;

 litigation activities and technical and strategy assistance by the American Civil Liberties Union's Reproductive Freedom Project in protecting women's Constitutional rights to make personal choices about their own reproductive health; and

 a variety of activities of the Institute for a Democratic Alternative for South Africa that is encouraging and mapping the evolution of a democratic, nonracial society in South Africa, with an emphasis on the economic issues raised by the transition to a postapartheid society.

The Bellagio Study and Conference Center

The Foundation's Bellagio Study and Conference Center, on Lake Como, Italy, was host this year to 26 conferences with a total of 583 participants from 70 countries. These conferences ranged from "The Role of Economics in Managing Environmental Problems" to "Human Consciousness and the Brain," and from "The Politics of Induced Fertility Change in Developing Countries" to "The Political Economy of Eastern Europe."

A total of 147 scholars and artists from 20 countries also were in residence to work on their own monthlong projects. These included a number of non-fiction books, including a collection of profiles showing how politics in India touches the lives of individuals, a biography of James Forrestal, and a textbook on sustainable agriculture; several novels, plays, and collections of poetry; a number of music compositions, including a symphony; articles on the politics of policy reforms in developing nations; and a variety of paintings and drawings.

A staff committee of the Foundation reviews applications for conferences and residencies, which are then selected by the committee on a competitive basis. Conferences are usually scheduled for three days, and the numbers of participants, limited to 25, must include substantial international representation. The month-long residencies are intended for scholars, artists, and others whose projects do not require laboratory or extensive library resources.

A separate annual report detailing activities of the Bellagio Center is published by the Foundation.

Finding Joseph Roan in Fredricksburg, Virginia, was a joyful moment for Soviet journalist Yelena Khanga, one of the Foundation's seven 1990-91 Warren Weaver Fellows. She is writing a book about her family as part of the little-known story of black Americans in the Soviet Union before World War II. Mr. Roan is the last survivor of the group of black ~ Americans that Ms. Khanga's grandfather, the late Oliver Golden, led to the Soviet Union in 1931. Mr. Roan leved there seven years before returning with his family for the United States, but Mr Golden and bis wife became Soviet citizens and lived there the remainder of their lives.

1990 Grants and Fellowships

International Program to Support Science-Based
Development 50
Agricultural Sciences Grants 50
Health Sciences Grants 58
Population Sciences Grants 66
Global Environmental Program Grants 72
Special Programming Grants 75
Fellowships 80
Arts and Humanities Grants 85
Equal Opportunity Grants 95
School Reform Grants 99
International Security Grants 101
Other Interests and Initiatives Grants 102

The Foundation's principal work is done through appropriations, each of which authorizes more than \$100,000 for a specific programmatic purpose and is approved by the Board of Trustees.

Direct appropriations are approved by the Board as grants to specific institutions. Other appropriations are approved by the Trustees for subsequent allocation by the staff. Within the approved purpose and dollar total, the staff allocates these appropriations as a series of grants after they have reviewed proposals, selected the recipients, and determined the grant amounts and specific activities to be funded.

Appropriations in the lists that follow include bracketed figures showing the year and total authorized amount of the appropriations; if allocations have been made, that information also is included.

The other items—those without bracketed information in the grant lists that follow—are grants-in-aid. The staff is authorized each year to make a limited number of grants-in-aid to institutions and individuals, in amounts of \$100,000 or less, for purposes within the Foundation's guidelines.

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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.

Agricultural Sciences Grants

Applying Biotechnology to Developing-Country Food Crops

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.

		For research on genes responsible for resistance to the sheath blight pathogen of rice	\$105,000
Basic and Applied Rice Biotechnology [1990 - \$3,000,000, in addition to remaining funds from prior year appropriations] To support research and training at advanced		For research on the isolation and characterization of avirulence genes from <u>Xanthomonas</u> campestris pv <u>oryzae</u>	\$150,000
laboratories and international agricultural research centers participating in the Foundation's program on rice biotechnology		Kyoto Prefectural University, Japan For research to improve the digestibility and nutritive quality of rice storage proteins through	\$4,900
Commonwealth Scientific and Industrial Research	\$192,600	genetic engineering	
Organization (CSIRO), Canberra, Australia For research on screening for genetic variation in osmotic adjustment, dehydration tolerance, and epidermal conductance in rice		Louisiana State University, Baton Rouge For research on the heritability of somaclonal variation in rice	\$6,000
Foundation-administered projects Program support expenses	\$70,000	Michigan State University, East Lansing For research on natural and genetically engineered variation of betaine accumulation in rice	\$100,000
Hokkaido University, Sapporo, Japan For research on the genetic transformation of rice	\$50,000	For research on the genetic characterization of biotype formation in brown planthopper, a major	\$38,140
Institut National de la Recherche Agronomique	\$100,000	pest of rice in several developing countries	
(INRA), Paris, France For research on altering pattern formation in rice root systems using genes from the plant pathogen Agrobacterium rhizogenes		Pennsylvania State University, University Park For research to assess under field conditions the variation in agronomic traits of rice (<u>Oryza sativa</u>) caused by the incorporation of foreign DNA	\$49,000
International Center for Tropical Agriculture (CIAT), Cali, Colombia For research on anther culture in rice breeding	\$180,000	Stanford University, California For research on the genetic engineering of rice with an emphasis on cold tolerance	\$250,000
John Innes Foundation, Norwich, England For research at the John Innes Institute on the molecular biology of rice tungro viruses	\$464,000	State University of Ghent, Belgium For research to enhance stress tolerance in rice via transformation and tissue-specific gene expression	\$250,000

Kansas State University, Manhattan

State University of Leiden, Netherlands For research on the genetic manipulation of rice	\$316,340	Crop Genetic Maps [1990 - \$600,000]	
Swiss Federal Institute of Technology (ETH Zurich), Switzerland	\$115,000	To enable scientists from third-world, crop-breeding institutions to participate in the development of molecular genetic maps, and to help them make use	
For research on the development of a genetic transformation system for <u>indica</u> rice varieties		of the resulting technology on their return home	
Texas Tech University, Lubbock For research on the use of molecular tools for	\$150,000	Christian Ademola Fatokun, University of Ibadan, Nigeria To study <u>Vigna</u> biotechnology under the direction of	\$28,590
genetic analysis of root penetration in rice		Nevin Dale Young, Department of Plant Pathology, University of Minnesota	
University of Durham, England	\$309,300		
For research on genetically engineered resistance in rice to the brown planthopper		Bhavanishankara Gowda, University of Mysore, India To atudu acabum kastashuralam at Tenas 45 M	\$24,550
University of Georgia, Athens For research on the molecular characterization of	\$165,000	To study sorghum biotechnology at Texas A&M University, College Station	
rice regulatory genes and unstable phenotypes arising from wide hybrid crosses		Jia Jizeng, Chinese Academy of Sciences, Beijing To study RFLP technology applied to wheat germ-plasm at Cambridge Laboratory, Norwich,	\$25,500
University of Missouri-Columbia For research on cytokinins and the control of rice	\$136,370	England	
endosperm development for increased potential		Lalitha Sunil Kumar, National Chemical	\$28,000
For research on the development, characterization, and mapping of DNA markers in the genus <u>Oryza</u>	\$100,000	Laboratory, Pune, India To study <u>Vigna</u> biotechnology at the University of Minnesota, St Paul	
University of Paris, France	\$38,500	Desiree Menancio-Hautea, University of the	\$30,700
For use by its Jacques Monod Institute to conduct		Philippines, Los Baños	φ)0,700
research on the molecular characterization of rice hoja blanca virus		To study <u>Vigna</u> biotechnology under the direction of Nevin Dale Young, Department of Plant Pathology,	
University of Washington, Seattle For research on the requirements of Agrobacterium-	\$109,000	University of Minnesola	
mediated transformation of rice via rice lungro agroinfection		Environmental Defense Fund, New York, New York In support of a research project on the	\$30,000
University of Wisconsin-Madison Toward the costs of a molecular and genetic analysis	\$150,000	environmental oversight of biotechnology	
of mechanisms controlling pathogen virulence		Mr Erwidodo, Government of Indonesia	\$3,450
in <u>Magnaporthe</u> g <u>risea</u> , the fungus causing rice blast disease		To complete a study at M1ch1gan State University entitled ''Panel Data Analys1s on Farm-Level Efficiency, Input Demand, and Output Supply of	
Washington State University, Pullman For research on the characterization of the rice	\$150,000	Rice Farms in West Java "	
blast fungus, <u>Pyricularia oryzae</u> , from upland rice screening sites		Genetic Map of Rice [1988 - \$1,000,000]	
Washington Il-mount Co. I and Marrie	\$2/0 000	To support the further development of rice	
Washington University, St Louis, Missouri For research on the molecular biology of rice tungro viruses	\$362,000	molecular genetic maps and markers, and their use in rice breeding and rice genetic engineering	
		International Rice Research Institute (IRRI),	\$100,000
Center for Research and Advanced Studies of the National Polytechnic Institute (CINVESTAV), Mexico City, Mexico [1990 - \$210,000]	\$210,000	Manila, Philippines For research on the application of RFLPs in plant breeding	
To support a collaborative research project on engineering proprietary genes for virus resistance		Indian Council of Agricultural Research, New Delhi, India	\$25,000
into Mexican potato varieties, and thereby help a new organization carry out its first attempt at		Toward the costs of an international symposium, "Rice Research New Frontiers"	
responsible transfer and application of proprietary biotechnologies to agricultural problems in developing countries			
aeveloping countries			

Indian Society of Seed Technology, New Delhi Toward the costs of holding an international conference on seed science and technology	\$12,000	Montana State University, Bozeman To develop a cooperative study with the International Potato Center (CIP), Lima, Peru, on agricultural chemical use and sustainability	\$12,930
International Institute of Tropical Agriculture	\$11,000	of Andean potato production	
(IITA), Ibadan, Nigeria Toward the costs of a biotechnology workshop and		Scott Rozelle, Cornell University, Ithaca,	\$5,800
training program for African scientists		New York	
John Innes Foundation, Norwich, England To support biotechnology research at the John Innes Institute on new sources of resistance to maize streak, a serious problem in Africa	\$150,000	To develop a research/training project on China's rice research program, cooperative among the departments of economics at the China National Rice Research Institute, the International Rice Research Institute, and the Food Research Institute at Stanford University	
Mahidol University, Bangkok, Thailand Toward the costs of an international conference on Biotechnology and Environmental Sciences Molecular Approaches	\$3,460	Stanford University, California For use by Prof John H Barton for analysis of the regulatory and intellectual property issues significant to developing countries' plant	\$7,600
Nitrogen Fixation in Non-Legumes		biotechnology research	
[1990 - \$470,000] To support research aimed at introducing symbiotic biological nitrogen fixation into non-legume food crops		Purdue University, West Lafayette, Indiana For research on the genetic characterization of Sorghum biocolor	\$70,000
Universidad Nacional Autonoma de Mexico, Mexico City	\$100,000	Rice Biotechnology at International Centers [1990 - \$1,000,000]	····
For research on gene amplification in <u>Rhizobium</u> and its role in rice nodulation		To support research at international centers participating in the Foundation's rice biolechnology program	
North Carolina State University, Raleigh To develop sustainable agricultural systems for the western Amazon as a way of slowing continuous deforestation in the region	\$900,000	International Center for Tropical Agriculture (CIAT), Cali, Colombia For biotechnology research on rice RFLP mapping, rice hoja blanca virus, and rice anther culture	\$104,500
Plant Biotechnology Policy in Developing Countries	· · · · · · · · · · · · · ·	International Rice Research Institute (IRRI),	
[1989 - \$400,000, in addition to remaining funds from prior year appropriations] To assist developing countries in determining		Manila, Philippines For the continuation of research on wide hybridization and rice genetics, the application of molecular techniques to rice pathology, and	\$600,000
priorities for their investments in agricultural biotechnology		evaluation of <u>Bacillus thuringiensis</u> strains for insect pest control	
Wojciech J Florkowski, University of Georgia, Griffin To develop a research project involving analysis of	\$5,100	Toward the costs of training courses in rice biotechnology for scientists from India	\$5,823
research prioritization in the rice biolechnology program, with particular emphasis on India		United Nations Industrial Development Organization (UNIDO), Vienna, Austria For use by its International Centre for Genetic	\$287,300
Gadjah Mada University, Yogyakarta, Indonesia For a study estimating potential gains in rice research in Indonesia	\$60,000	Engineering and Biotechnology, New Delhi, India, for research on the enhancement of insect resistance in rice, with special reference to gall midge	
International Rice Research Institute (IRRI), Manila, Philippines For a study of the constraints on higher rice yield in different rice production environments in Tamil Nadu State and the larger Southern India region	\$50,000	Studies on the Impact of Agricultural Technical Change [1989 - \$400,000, in addition to remaining funds from prior year appropriations] To support comprehensive studies on the impact of agricultural research in developing countries as a basis for long term agricultural research policy	

Foundation-administered project For the publication of results of research on rice in India	\$5,990	Chinese Academy of Agricultural Sciences, Beijing For use by its Biotechnology Research Center for research to protect transgenic rice plants against	\$100,000
International Rice Research Institute (IRRI), Manila, Philippines	\$50,000	lepidopteran insects	
For a study of the differential impact of modern rice technology in favorable and unfavorable production environments and limited rural factor markets in China		Chinese Academy of Sciences, Guangzhou For research by the Shanghai Institute of Plant Physiology on regulation of the expression of the rice waxy gene	\$36,000
Transfer of Rice Biotechnology [1990 - \$1,000,000, in addition to remaining funds from prior year appropriations]		For use by its Institute of Microbiology for research on the genetic engineering of rice for resistance to rice stripe and rice dwarf viruses	\$ 75,00 0
To help developing countries establish the scientific capacity and research programs necessary to utilize		For research by the Shanghas Institute of Plant Physiology on rice protoplasts	\$60,000
<i>and advance rice biotechnologies</i> Association of Rice Research Workers, Cuttack, India In support of its quarterly journal, <u>Oryza</u>	\$30,000	For use by the South China Institute of Botany for research to induce and develop a new cytoplasm source of male sterility in <u>indica</u> rice by tissue and cell culture	\$30,000
Bangladesh Rice Research Institute, Dhaka Toward the development of biotechnology for rice	\$132,000	For use by its Institute of Genetics for research on the improvement of rice by gene transformation	\$75,000
improvement in Bangladesh Beijing University, China	\$150,000	Foundation-administered projects Program support expenses for the Foundation's rice biotechnology program in India	\$37,000
For research on the molecular cloning of genes encoding anti-rice leaf blight and fungal blast disease proteins		For costs of the Fourth Annual Meeting of the Foundation's Program of Rice Biolechnology	\$126,944
Bose Institute, Calcutta, India For research on the production of transgenic <u>indica</u>	\$114,260	For costs related to publication and distribution of a book entitled "Rice Biotechnology"	\$20,000
rice plants with useful genes		For a laboratory training course on protoplast regeneration of <u>indica</u> rice	\$32,000
Center of Research and Advanced Studies of the National Polytechnic Institute (CINVESTAV),	\$107,800		¢107 (00
Mexico City, Mexico For research on a biochemical and molecular approach to increase rice productivity by		Foundation for Research in Applied Biology (FIBA), Mar del Plata, Argentina For use by its Center of Biological Research for	\$107,600
manipulating sucrose	٦ • • • • • • •	research on a biochemical and molecular approach to increase rice productivity by manipulating sucrose metabolism	
Chen Mingshun, China National Rice Research Institute, Hangzhou For doctoral studies in biochemistry at Kansas Slate University	\$26,020	Fudan University, Shanghai, China For research on a novel system for gene transfer in rice	\$60,000
China National Center for Biotechnology Development, Beijing Toward the costs of supporting a comprehensive Chinese research network on rice biotechnology	\$30,000	Huazhong Agricultural University, Wuhan, China For research on RFLP mapping and identifying the gene for photoperiod-sensitive male sterility in rice	\$60,000
China National Rice Research Institute, Hangzhou For research leading to the application of novel strategies in rice improvement in China	\$100,000	International Rice Research Institute (IRRI), Manila, Philippines Toward the costs of training courses in rice biotechnology for scientists from India	\$50,677
strategies in rice improvement in Unina		Kasetsart University, Bangkok, Thailand Toward the costs of research on the genetic transformation of rice for resistance to ragged stunt virus	\$90,000

For research on rice varietal improvement for higher protein content through direct gene transfer	\$50,000	South China Agricultural University, Guangzhou For research on detecting and following the inheritance of important rice genes by linkage	\$36,000
L1 L1angca1, Institute of Genetics, Beijing, China To enable him, as a visiting scientist research fellow	\$32,700	with RFLP and isozyme markers	
in rice biotechnology, to study rice transformation		SPIC Science Foundation, Madras, India	\$35,000
with RTBV coat protein gene under the direction of Roger N Beachy, Washington University		Toward the costs of research on the characterization of the mitochondrial genome in rice and its role in the outpression of mitochonomic scientific	
Li Xiang-hui, Institute of Genetics, Beijing, China	\$7,900	the expression of cytoplasmic male sterility	
For extension of his Visiting Scientist Research	- /	United Nations Industrial Development	\$85,580
Fellowship in Rice Biotechnology to study		Organization (UNIDO), Vienna, Austria	
protoplast uptake of chimeric genes and regeneration in the genetic transformation of		For use by its International Centre for Genetic Engineering and Biotechnology, New Delbi, India,	
rice plants at Washington State University		to conduct three laboratory courses on rice biotechnology for researchers from developing	
Li Xiu-Qing, Beijing University, China	\$16,180	countries	
To enable him, as a visiting scientist research			***
fellow in rice biotechnology, to study plant tissue culture/molecular biology under the direction of		University of Calcutta, India <i>Toward the costs of developing RFLP probes</i>	\$100,000
Thomas K Hodges, Purdue University		using repetitive DNA sequences of rice ribosomal RNA genes	
Mahidol University, Bangkok, Thailand	* (* * * * *	-	
For research on the identification and characterization of genes involved in disease	\$60,000	University of Costa Rica, San José	\$66,550
resistance in rice		For research on the molecular characterization of rice hoja blanca virus	
For research on RFLP-facilitated mapping	\$60,000		
of genetic loci responsible for photoperiod	,00,000	University of Dhaka, Bangladesh For research on the genetic manipulation of	\$63,550
and sensitivity fragrance in rice		Bangladeshi rice varieties to increase their	
National Chemical Laboratory, Pune, India	\$104,000	tolerance of salt	
For research in rice biotechnology	φ104,000	University of Hyderabad, India	\$100,000
	* (= 0.0.0	For research on genetic and molecular biology	\$100,000
Osmania University, Hyderabad, India For research on the genetic and physiological	\$65,000	approaches to the identification and isolation of	
aspects of anther culture in <u>indica</u> rice		transposable elements in rice	
	#14.000	University of Madras, India	\$60,000
Pritilata Nayak, Bose Institute, Calcutta, India To study the development of techniques for	\$34,900	For research on the biological control of rice blast	
the production of transgenic rice plants at		disease with fluorescent pseudomonads	
Purdue University, West Lafayette, Indiana		University of the Philippines, Los Baños	\$150,000
Qin Rui Zhen, Chinese Academy of Agricultural	\$1,200	Toward the costs of the Philippine Research	
Sciences, Beijing	<i>41,200</i>	Program on Rice Biotechnology	
For research on the mechanisms of differentiation		University of the Punjab, Lahore, Pakistan	\$184,800
of plant cell culture systems		For research on the development of genetic	
Research Laboratory for Agricultural		resistance to common pests of rice through expression of <u>Bacillus thuringiensis</u> toxin genes	
Biotechnology and Biochemistry, Kasharan da Manal		expression of <u>parameters to an genes</u>	
Kathmandu, Nepal To enable one of its staff members to attend a three-	\$9,000	Zhejiang Agricultural University, Hangzhou,	\$45,000
month training program in rice anther culture at the	<i>••••••</i>	China For research on proteins antagonistic to rice	
International Rice Research Institute, Philippines		bacterial leaf blight and the genes encoding	
For research on anther culture techniques to	\$20,000	the proteins, in collaboration with the China	
increase the efficiency of rice breeding	+	National Rice Research Institute	
		Zheng Kangle, China National Rice Research	\$35,500
		Institute, Hangzhou Ta studu tha taganna of garonamically emportant	
		To study the tagging of agronomically important genes to RFLP markers, under the direction of	
		Gary Kochert, Department of Botany, University	
		of Georgia	

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Zhongshan University, Guangzhou, China For research on the molecular biology of wide-compatibility genes in rice.	\$60,000	[1990 - \$366,000] To develop improved food legume varieties and production techniques acceptable to small farmers.	\$366,000
Zhu Lihuang, Academia Sinica, Beijing, China For research on the further development of the RFLP genetic map of rice.	\$10,000	International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria [1990 - \$500,000]	\$500,000
United Nations Industrial Development Organization (UNIDO), Vienna, Austria For use by its International Centre for Genetic Engineering and Biotechnology, New Delhi, India, toward the costs of a conference on molecular	\$2,290	To determine the importance of banana pests in bighland East Africa, obtain an ecological understanding of their effects in constraining banana output, and develop a biological control program aimed at the most important pests.	
approaches to plant stress.		International Laboratory for Research on	\$350,000
University of Georgia, Athens Toward a research project on the molecular tagging of genes controlling apomixis.	\$90,000	Animal Diseases (ILRAD), Nairobi, Kenya [1990 - \$350,000] To continue support for its work on identifying the factors most likely to influence implementation of livestock disease control in Africa and assessing	
Washington University, St. Louis, Missouri To develop and evaluate DNA-based molecular techniques for the identification and systematic analysis of cassava and its wild relatives.	\$24,500	the probable impact of improved control in epidemiological, economic, social, and environmental terms.	
Strengthening Food Production Systems in Africa		International Maize and Wheat Improvement Center (CIMMYT), Mexico City, Mexico For the development of a cereal grains policy analysis network for Southern and Eastern Africa.	\$30,000
Eduardo Mondlane University, Maputo, Mozambique To develop a research agenda for its Faculty of Agriculture and Forest Studies.	\$7,000	Louis Kangethe, Nairobi, Kenya For seed and nursery studies of two important semiarid tree species, <u>Diospyros mespiliformis</u> and <u>D</u> . <u>scabra.</u>	\$42,000
Food and Agriculture Organization of the United Nations, Rome, Italy Toward the costs of a meeting of the Special Commission on Environment of the Amazon	\$20,000	Kenya Agricultural Research Institute, Nairobi Toward the costs of a national conference on plant and animal biotechnology.	\$5,000
Cooperation Treaty. (Joint grant with Global Environment for a total of \$90,000.)		Firmino Mucavele, Eduardo Mondlane University, Maputo, Mozambique	\$9,600
Foundation-administered projects Foundation-sponsored study on the postharvest aspects of food production in Africa as a step in	\$75,000	For a comparative analysis of technical and economical efficiency in farm management economics in Mozambique.	
developing an analytical framework for evaluating the dynamics of African agricultural systems. Toward the costs of a forum on alternatives for	\$15,000	National Institute of Agricultural Research, Ministry of Agriculture, Maputo, Mozambique For the development of a Documentation and	\$25,000
strengthening postgraduate education and training in Eastern and Southern Africa.		Information Centre for the Agricultural Sector.	
Reuben Joshua Gambang'adi, Dar es Salaam, Tanzania For participation in a Harvard Institute for	\$6,500	National Museums of Kenya, Nairobi For a conference on research needs regarding use of wildlife for sustainable development.	\$20,000
International Development workshop on food and agricultural policy analysis.		Overseas Development Institute, London, England For the Malawi and Zimbabwe components of a	\$45,000
Government of Malawi [1990 - \$350,000, in addition to remaining funds from prior year appropriations]		study of the structure and performance of the seed sector in Eastern and Southern Africa.	
To continue to strengthen the capacity of Malawi to design and conduct a maize research program that addresses the needs of smallbolders.	\$350,000		

Soils Research in Africa [1989 - \$200,000, in addition to remaining funds from prior year appropriations] To strengthen international soils research efforts		University of Zimbabwe, Harare For a project on rural housebold food security in Zimbabwe	\$35,000
directed toward sustainable crop production systems for Africa		Winrock International Institute for Agricultural Development, Morrilton, Arkansas Toward the costs of an assessment of animal	\$50,000
Edinburgh School of Agriculture, Scotland For use by the International Benchmark Sites Network for Agrotechnology Transfer (IBSNAT)	\$110,000	agriculture in Africa	
project for a cooperative study with the Government of Malawi on agrotechnology transfer using biological modeling		Increasing Knowledge for the Management of Natural Resources	
Foundation-administered project Toward the costs of a feasibility study by the International Fertilizer Development Center, the Tropical Soils Biology and Fertility Program, and	\$30,000	Asian Institute of Technology, Bangkok, Thailand Toward the costs of the 1990 Asian Farming Systems Research and Extension Symposium	\$15,000
the International Board for Soils Research and Management on the possibilities for establishing cooperative field work		Richard Critchfield, Berkeley, California For research and writing on rural development in the third world	\$20,000
Ohio State University, Columbus For a study of long-term agronomic experiments and options for sustainable soil and waste management in the tropics	\$52,000	Foundation-administered project Toward the costs of a Foundation-conducted Agricultural Media Seminar on important research in ensuring adequate world food supplies	\$50,000
University of California, Davis For a research project to upgrade library materials in the Faculty of Veterinary Medicine, Makerere University, Kampala, Uganda	\$1,500	Government of Malaws [1990 - \$316,000] To strengthen the Department of Agricultural Research's agroforestry program, aimed at	\$316,000
University of Malawi, Lilongwe [1990 - \$160,000] To strengthen its master's degree teaching in agriculture and related fields by enhancing opportunities for faculty and graduate student research on priority problems	\$160,000	improving productivity on small farms Indian Society of Soil Science, New Delhi, India To enable Indian scientists to participate in the 14th International Congress of Soil Science	\$12,000
For use by its Bunda College of Agriculture for research on integrated management of maize stalkborers in Malawi	\$8,000	International Board for Soil Research and Management, Bangkok, Thailand [1990 • \$216,700]	\$216,700
For use by the Library of the Bunda College of Agriculture in developing a database on maize in Malawi	\$9,163	To help develop the capacity of researchers in Uganda and Tanzania io evaluate the sustainability of alternative agricultural land management systems	
University of Wisconsin-Madison To provide academic enrichment to African graduate students enrolled in agricultural programs in United States universities with a view to improving the quality and relevance to African	\$450,000	International Centre for Integrated Mountain Development, Kathmandu, Nepal Toward the costs of an international symposium on strategies for sustainable mountain agriculture	\$15,000
development of their doctoral research		International Fund for Agricultural Research, Arlington, Virginia For use by the International Program for Tropical Tree Crops Conservation and Development for a study of bamboo and rattan	\$25,000
		International Potato Center (CIP), Lima, Peru To develop and apply a methodology for assessing the production, environmental, and health effects of miensive-input agriculture in a developing	\$140,453

of intensive-input agriculture in a developing country on a social as well as private basis (Joint project with Montana State University)

International Union of Forestry Research Organizations, Vienna, Austria Toward the costs of participation by developing- country nationals in its XIXth World Congress	\$15,000	University of Illinois, Urbana-Champaign To permit participation by developing-country scientists in the "Uniformity by 2000 Program," an international workshop on maize and soybean quality	\$11,000
Measuring Agricultural Constraints in Eastern and Southern Africa [1990 - \$700,000] To develop analytic tools that will measure the extent of physical, biological, and socioeconomic constraints on agricultural production as guides		University of Minnesota, Minneapolis For use by its Hubert H Humphrey Institute of Public Affairs toward the work of the Agriculture 2000 Task Force	\$50,000
for research and technology application in Eastern and Southern Africa		Wye College, University of London, England [1990 - \$110,000]	\$110,000
Foundation-administered projects Toward the costs of two workshops on measuring macro-level constraints in Eastern and Southern	\$60,000	To provide fellowships enabling developing-country professionals to enroll in its Programme in Agricultural Development for External Students	
African farming systems Commissioned development of a geographically referenced information system for evaluating macro-level constraints in African farming systems	\$50,000	Yale University, New Haven, Connecticut To establish an interdisciplinary and comparative program for US and third-world scholars in agrarian studies (Joint appropriation with Special Programming and Arts and Humanities, for a	\$50,000
International Laboratory for Research on Animal Diseases (ILRAD), Nairobi, Kenya For a workshop on the use of Intelligent Geographic Information Systems for increased sustainable agricultural productivity in Africa	\$95,000	total of \$200,000) Fellowships	
Overseas Development Institute, London, England For a study of environmental management in Kenya	\$65,000	Biotechnology Career Fellowships (Jointly funded with Health Sciences and Population Sciences for a total of \$1,100,000)	\$453,400
Michigan State University, Ann Arbor To enable nationals from developing countries to participate in the 10th Annual Symposium of the Association for Farming Systems Research/Extension	\$15,000	Social Science Fellowships in Agriculture [1990 - \$360,000, in addition to remaining funds from prior year appropriations] To advance understanding of agricultural performance in Africa through collaborative interdisciplinary research between African and U S scholars	
Montana State University, Bozeman To develop and apply a methodology for assessing the production, environmental, and health effects of intensive-input agriculture in a developing country on a social as well as private basis (Joint project with International Potato Center)	\$114,047	Program support expenses	\$29,000
Henry Kanjobe Mwandemere, Lilongwe, Malawi For research on the management of tropical soils	\$8,800		
K S Puri, New Delhi, India For a research study on the dimensions of a long-range land-use policy in India	\$33,620		
Resources for the Future, Washington, D C Toward the activities of the International Policy Council on Agriculture and Trade	\$40,000		
University of California, Davis For use by the Genetic Resources Conservation Program toward the costs of an International Short Course on Plant Genetic Resources Conservation	\$20,000		

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.

Enhancing National Capacity for Population-Base Health Care	d	Gadjah Mada University, Yogyakarta, Indonesia Toward a collaborative study with Yale University on bronchial asthma and atopy as risk factors for dengue hemorrhagic fever and dengue shock	\$9,350
African Medical and Research Foundation, U.S.A., New York, New York	\$5,000	syndrome in Indonesia	
Toward publication of a bibliography of sources on sexuality and health in sub-Saharan Africa		Harvard University, Cambridge, Massachusetts [1990 - \$200,000]	****
The Aga Khan Foundation, U.S.A , Washington, D.C. In support of the "Primary Health Care Management Advancement Programme" (MAP)	\$100,000	To help the Commission on Health Research for Development promote action by the world community to enhance investment in and demonstrate the effectiveness of health research for and by developing countries	\$200,000
American College of Physicians, Philadelphia, Pennsylvania Toward the development of an international health	\$25,000	For a project entitled "Strengthening and Replicating New Programs in International Health "	\$9 5,00 0
action program in two developing countries American Society of Tropical Medicine and	\$10,0 00	Toward the costs of a meeting on "Outpatient Hospitals · Their Role in Health Systems in Developing Countries "	\$50,000
Hygiene. Cleveland, Ohio Toward the costs of enhancing the quality and relevance of its annual meeting so as to attract young investigators and developing-country scientists		Henry M. Jackson Foundation for the Advancement of Military Medicine, Rockville, Maryland In support of an international conference, "Emerging Problems in Food-Borne Parasitic	\$12,400
Emory University, Atlanta, Georgia [1990 - \$55,000] To provide bridging support for A Public Health	\$55,000	Zoonoses,'' held at Chiang Mai University, Thailand, November 14-17, 1990.	
Summer Fellowship Program for Minority Students (Joint appropriation with Equal Opportunity, for a total of \$110,000)		International Clinical Epidemiology Network (INCLEN) [1990 - \$4,500,000, in addition to remaining funds	
Toward the start-up costs of a training course in outbreak epidemiology for international bealth professionals	\$24,800	from prior year appropriations] To continue support for core activities of the International Clinical Epidemiology Network (INCLEN) that link 27 clinical epidemiology units	
The ETV Endowment of South Carolina, Inc., Spartanburg For use by South Carolina Educational TV toward the distribution and promotion costs of a program series entitled "The Planned Miracle"	\$25,000	in developing countries with five clinical epidemiology resource and training centers, and for the training provided by the centers at the Universities of Pennsylvania, North Carolina at Chapel Hill, Newcastle, Australia, and Toronto, Canada	
Foundation for International Scientific Cooperation (U.S. Committee for Scientific Cooperation with Vietnam), Ann Arbor, Michigan	\$65,000	Chulalongkorn University, Bangkok, Thailand In support of its new master's degree program in Health Development.	\$43,200
To improve the disease surveillance system of Vietnam		In support of a study examining the social factors and health beliefs related to measles immunization among slum children	\$5,000

Toward continuing support of its Clinical Epidemiology Unit	\$25,000	Makerere University, Kampala, Uganda For a research project in clinical epidemiology	\$5,000
For a clinical epidemiology research project entitled 'Impact of Cranial CT Scan on the Management of Patients Presenting with Head Injury or Seizures''	\$5,000	entitled "A Qualitative Study of Sexual Behavior Among Selected Higb-Risk Groups for HIV Transmission in Rakai District of Uganda "	
Escola Paulista de Medicina, Sao Paulo, Brazil		Toward continuing support of its Clinical Epidemiology unit	\$25,000
Toward continuing support of its Clinical Epidemiology Unit	\$50,000	For a research project in health economics entitled "The Economic Impacts of Acquired	\$5,000
For a research project in health economics entitled 'Utility Assessment of AIDS Outcomes "	\$5,000	Immunodeficiency Syndrome (AIDS) in Mulago Hospital, Uganda "	
For a research project in clinical epidemiology entitled "The Feasibility of the Brazilian version of the Revised Composite International Diagnostic Interview"	\$4,000	McMaster University, Hamilton, Canada To enable one of its faculty members to spend a sabbatical at Gadjah Mada University, Yogyakaria, Indonesia, collaborating on a research project involving issues in health policy development	\$ 17,500
Gadjah Mada University, Yogyakarta, Indonesia Toward the costs of a pilot study on the social and medical organization of emergency medical services in urban Indonesia	\$20,000	To enable a biostatistician on its Health Sciences Faculty to teach at several INCLEN sites during his sabbatical	\$26,300
Toward continuing support of its Clinical Epidemiology Unit	\$50,000	Ohio State University, Columbus For a Bellagio conference on the use of drugs and vaccines in developing countries, held	\$40,000
Hospital General de México, Mexico City Toward continuing support of its Clinical	\$25,000	April 16-20, 1990	000 001
EpidemiologyUnit For a research project in clinical epidemiology	\$5,000	In support of INCLEN's Seed Grant Program in Pharmacoepidemiology	\$80,000 ′
entitled "An Economic Evaluation to Assess Whether Alcohol Taxes Pay for the Excess Utilization of the Health System Due to Alcohol Consumption"		Pontifici Universidad Javeriana, Bogota, Colombia For a research project in clinical epidemiology entitled "Social Factors and Scales of Severity	\$5,000
International Epidemiological Association, Los Angeles, California	\$35,000	Involved in Three Types of Injury in Colombia " Toward continuing support of its Clinical	\$50,000
Toward the travel costs of third-world epidemiologists participating in the IEA regional meeting held in Los Angeles, August 5-9, 1990		Epidemiology Unit For a research project in clinical epidemiology entitled "Identification of White Hypertension,	\$5,000
Johns Hopkins University Baltimore, Maryland For the Johns Hopkins/INCLEN collaborative	\$50,000	WCH, a Cost Effectiveness Analysis " Shanghai Medical University, China	\$50,000
project to broaden and strengthen the INCLEN fellowship and training components and to provide long-term support for Clinical Epidemiology Unit research and teaching activities		Toward continuing support of its Clinical Epidemiology Unit	φ70,000
Khon Kaen University, Thailand Toward continuing support of its Clinical	\$25,000	Suez Canal University, Ismailia, Egypt Toward continuing support of its Clinical Epidemiology Unit	\$25,000
Epidemiology Unit		For a research project in clinical epidemiology entitled "Risk Factors for Recurrent Kidney	\$5,000
Mahidol University, Bangkok, Thailand For a workshop on health social sciences in clinical	\$6,900	Stones"	
epidemiological studies, held April 19-21, 1990 Toward continuing support of its Clinical Epidemiology Unit	\$25,000	Universidad de la Fronteta, Temuco, Chile For a research project in clinical epidemiology entitled "Two Strategies of Routine Testing at Admission to an Internal Medicine Ward"	\$5,000
		Toward continuing support of its Clinical Epidemiology Unit	\$25,000

For a research project in clinical epidemiology entitled "The Effectiveness of Tricyclic Antidepressants in the Treatment of the Persistent Pain Associated to Rheumatoid Arthritis"	\$5,000	University of North Carolina at Chapel Hill In support of a doctoral dissertation study comparing standards, practice patterns, and costs of upper gastrointestinal endoscopy in the United States and Mexico	\$25,000
For a research project in clinical epidemiology entitled ''Identifying Higb-Risk Patients for Gallbladder Cancer by Ultrasonography''	\$5,000	Toward the costs of the first phase of an internal evaluation of INCLEN	\$35,000
Universidade Federal Do Rio De Janeiro, Brazil For a research project in clinical epidemiology entitled "Arterial Hypertension and socioeconomic status on employers of the University Hospital"	\$5,000	To continue support for the Clinical Epidemiology Resource and Training Center (CERTC) established at this university as part of the Foundation's International Clinical Epidemiology Network (INCLEN)	\$1,010,000
For a research project in clinical epidemiology which examines the sensitivity of colposcopic biopsy for the diagnosis of preclinical invasive cancer	\$5,000	University of Pennsylvania, Philadelphia To continue support for the Clinical Epidemiology Resource and Training Center (CERTC) established at this university as part of the Foundation's	\$1,200,000
University of Chile, Santiago Toward continuing support of its Clinical Epidemiology Unit	\$50,000	International Clinical Epidemiology Network (INCLEN)	
For a research project in clinical epidemiology on the male role in family planning	\$5,000	University of the Philippines System, Manila Toward continuing support of its Clinical Epidemiology Unit	\$25,000
University of Health Sciences, Madras, India Toward continuing support of the Clinical Epidemiology Unit at its Madras Medical College	\$25,000	University of Toronto, Canada In support of its short course in Health Care Evaluation and Management Skills for physicians	\$203,000
For support of a research project in clinical epidemiology at its Madras Medical College entitled "Treatment of Bacterial Meningitis Drug Trial-Cefuroxime"	\$5,000	and health administrators in developing countries University of Yaoundé, Cameroon Toward continuing support of its Clinical Epidemiology Unit	\$25,000
For a research project in clinical epidemiology at its Madras Medical College entitled "Comparison of Phenobarbitol, Phenytoin, and Carbamazepine in Generalized Tonic Clonic Seizures in Children"	\$5,000	University of Zimbabwe, Harare For a research project in clinical epidemiology entitled "Modifiable Predictors of Low Birth Weight in the Zimbabwean Cities of Harare	\$5,000
University of Nairobi, Kenya For a research project in clinical epidemiology entitled "Anti Malarial Chemoprophylaxis in Adults with Sickle Cell Anemia in Kenya A Randomized Clinical Trial"	\$5,000	and Bulawayo" West China University of Medical Sciences, Chengdu Toward continuing support of its Clinical	\$50,000
For a research project in health economics entitled, "Potential Resource Savings by Introducing a	\$5,000	Epidemiology Unit Foundation administered projects	
Hospice Program into the Kenyan Health Care System "		Toward the costs of the eighth annual meeting of INCLEN, held in Puebla, Mexico, January 1990	\$60,000
University of Newcastle, Australia In support of the social science training component	\$100,000	Toward the costs associated with INCLEN presidency	\$33,120
at its Clinical Epidemiology Resource and Training Center(CERTC)		Costs of INCLEN interchange activities	\$50,000
To continue support for the Clinical Epidemiology Resource and Training Center (CERTC) established at this university as part of the Foundation's	\$490,000	For committee meetings of the Clinical Epidemiology Resource and Training Center's advisory committee	\$30,000
International Clinical Epidemiology Network (INCLEN)		Evaluation of the program	\$65,000
(INCLEIN)		Expenses related to social science and biostatistics meetings within the Network	\$30,000
		Toward the costs of the ninth annual meeting of INCLEN, held in Mombasa, Kenya, January 20-26, 1991	\$200,000

Johns Hopkins University, Baltimore, Maryland Toward the costs of a United States-China Anti-Smoking project development workshop	\$43,200	Yale University, New Haven, Connecticut In third-year support for a research project on the molecular epidemiology of dengue virus	\$30,000
McMaster University, Hamilton, Canada For continued support of the "University Partnerships in Essential Health Research "	\$50,000	Foundation-administered project For the local purchase and installation of three CD ROM equipment work stations at Gadjah Mada Univer sity (Indonesia), Pontificia Universidad	\$15,800
National Academy of Sciences, Washington, D C Toward continued development of the Institute of Medicine's Division of International Health and its external advisory board	\$100,000	Javeriana (Colombia), and Universidad Autonoma de San Luis Potasi (Mexico) to enable them to contract for hardware maintenance, assure software supplies, and arrange for local training	
SatelLife, Cambridge, Massachusetts Toward the pilot phase of a communications network connecting five universities in East and Southern Africa (Joint grant with Global	\$5,000	Preventing Developing-Country Diseases Through Vaccinology and Pharmacology	
Environment, for a total of \$65,000) Task Force for Child Survival, Atlanta, Georgia [1990 - \$250,000 in addition to remaining funds from prior year appropriations] To continue its technical assistance to the Ugandan	\$250,000	Roy Acheson, Cambridge, England To enable him to write a biography of Wickliffe Rose, who was largely responsible for the early successes of the Foundation's international health programs	\$30,000
Ministry of Health for reestablishment of the country's primary health care system		American Society for Circumpolar Health, Anchorage, Alaska	\$5,000
United Nations Children's Fund (UNICEF), New York, New York Toward the organization of the World Summit for Children, to be held in New York, September 29-30, 1990	\$50,000	In support of an international seminar on alveolar bydatid disease, held in Anchorage, June 7-8, 1990 Centers for Disease Control, Atlanta, Georgia Toward support of a collaborative research project between the United States and the Soviet Union to	\$30,000
Université du Benin, Cotonou For a short course in demography and health planning, to be held January 29-February 17, 1990,	\$55,000	sequence strains of the variola virus (Joint grant with Special Interests and Explorations, for a total of \$60,000)	
at its facilities in Lomé, Togo University of California, San Francisco [1990 - \$1,065,000, in addition to remaining funds from prior year appropriations]	\$1,065,000	Cold Spring Harbor Laboratory, New York Toward the costs of publishing the proceedings of the 1990 Conference on modern approaches to new vaccines	\$20,000
To continue support for the Pew Charitable Trusts/ Rockefeller Foundation program aims at mobilizing academic teaching and research institutions in North America to assume national leadership roles in implementing equitable, cost-effective bealth care and health promotion practices		Harvard University, Cambridge, Massachusetts For completion of a research project on visceral leishmaniasis in Brazil, conducted collaboratively by the Harvard School of Public Health, the University of Virginia, and the Federal University of Ceara, Brazil	\$25,000
To plan an evaluation of Child Survival programs in selected South Asian and African countries	\$36,000	Health Sciences for the Tropics [1990 - \$1,900,000 in addition to remaining funds	
University of Ibadan, Nigeria Toward strengthening the research capabilities of the Ibarapa Community Health Program	\$25,000	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	
World Health Organization, Geneva, Switzerland Toward the costs of publishing and disseminating an international health systems newsletter, "Bridge"	\$60,000 ,	partnerships	

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Brown University, Providence, Rhode Island Toward support of a research project entitled "A Multidisciplinary Approach to Philippine Schistosomiasis"	\$48,600	New York University, New York Toward support of a research project entitled ''Immunobiology of Malaria and Chagas' Disease ''	\$145,400
Case Western Reserve University, Cleveland, Ohio Toward support of a research project entitled "Epidemiology and Host-Parasite Relationship in Schistosomia sis Haematobia"	\$84,000	Stanford University, Palo Alto, California Toward support of a research project entitled "The Application of Biotechnology to the Enteric Infections of Childhood "	\$74,000
Center for Genetic Engineering and Biotechnology Investigations (CEIINGEBI), Cuernavaca, Mexico Toward support of a research project entitled "The Application of Biotechnology to the Enteric	\$211,800	Universidade Federale do Ceara, Fortaleza, Brazil Toward support of a research project entitled "Recognition, Pathogenesis and Control of Enteric Infections Causing Prolonged Diarrhea in Northeastern Brazil"	\$88,200
Infections of Childhood '' Christian Medical College and Hospital, Vellore, India Toward support of a research project entitled	\$72,500	Universita di Roma, Italy Toward support of a research project entitled "Malaria Control through Modification of <u>Anopheles</u> <u>Gambiae</u> Vector Populations"	\$109,000
"Diarrheal Disease Basic Mechanisms of Host Response A Molecular, Clinical and Epidemiologic Approach"		University of California, Los Angeles Toward support of a research project entitled "Pathogenic Kinetoplastids The Plymerase-Chain- Reaction Amplification of Parasite-Specific DNA	\$121,000
Robert W Gwadz, Ph D, National Institutes of Health, Bethesda, Maryland Toward support of a research project entitled "Malaria Control through Modification of <u>Anopheles</u>	\$92,800	Sequences as a New Tool for Diagnostic, Epidemiological and Phylogenetic Studies of Kinetoplastid Protozoa"	
Gambiae Vector Populations"		University of California, San Francisco Toward support of a research project entitled	\$90,000
Harvard University, Cambridge, Massachusetts Toward support of a research project entitled "A China-US Parinership for Training and	\$84,000	"Protozoan Intestinal Diseases Biology & Epidemiology" Toursed output of a survey bound of the lift	¢55.000
Research on Schistosomiasis and Filariasis"		Toward support of a research project entitled "Drug Development and Resistance in <u>Plasmodium</u> "	\$55,000
Institut Pasteur, Lille, France Toward support of a research project entitled "Immunity and Morbidity in Human Schistosomiasis"	\$40,700	University of Cambridge, England Toward support of a research project entitled "Immunity and Morbidity in Human Schistosomiasis"	\$50,000
Institut Pasteur, Paris, France Toward support of a research project entitled "A Molecular Approach to Immunology and Epidemiology of Human Vivax Malaria"	\$95,400	University of Edinburgh, Scotland Toward support of a research project entitled "A Molecular Approach to Immunology and Epidemiology of Human Vivax Malaria"	\$52,000
Medical Research Council, Fajara, Banjul, The Gambia Toward support of a research project entitled "Study of the Epidemiology and Immune Responses to Potential Candidate Vaccine Antigens for <u>P faliciparum</u> Blood Stage Vaccine "	\$39,000	University of Oxford, England Toward support of a research project entitled " <u>P faliciparum</u> Malaria in Melanesia and Polynesia A Study of the Pathophysiology and Genetic Factors Involved in Individual Susceptibilities"	\$95,000
New England Medical Center Hospitals, Inc, Boston, Massachusetts Toward support of a research project entitled "Diarrheal Disease Basic Mechanisms and Host Response A Molecular, Clinical and	\$72,500	University of Stockholm, Sweden Toward support of a research project entitled "Study of the Epidemiology and Immune Responses to Potential Candidate Vaccine Antigens for <u>P faliciparum</u> Blood Stage Vaccine"	\$60,000
Epidemiologic Approach ''		University of Virginia, Charlottesville Toward support of a research project entitled "Recognition, Pathogenesis and Control of Enteric Infections Causing Prolonged Diarrhea in Northeastern Brazil"	\$126,900

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Walter & Eliza Hall Institute of Medical Research, Melbourne, Australia Toward support of a research project entitled A Multidisciplinary Approach to Philippine Schistosomiasis."	\$38,500	IAF Biovac Inc., Quebec, Canada To make viral vaccine production a generic and technically accessible process available at moderate cost to developing countries.	\$950,000
International Society for Infectious Diseases, Boston, Massachusetts	\$24,800	Task Force for Child Survival, Atlanta, Georgia Toward the costs of the second year of the Vaccine Development Project.	\$92,900
To enable scheduled speakers from developing countries to attend its 1990 Congress, held in Montreal, Canada, July 15-19, 1990.		World Health Organization (WHO), Geneva, Switzerland [1990 - \$350,000, in addition to remaining funds	
ohns Hopkins University, Baltimore, Maryland To enable Dr. David Perez-Morga to continue bis postdoctoral research within the School of Medicine.	\$25,600	from prior year appropriations] To continue support for an essentially independent, special program of WHO aimed at expediting basic	\$350,000
For final year support to enable Dr. Gordon Ada to	\$35,000	and developmental research on vaccines against selected third-world diseases.	
serve as Visiting Professor in the Department of Immunology and Infectious Diseases at the School of Hygiene and Public Health.		[1990 - \$250,000, in addition to remaining funds from prior year appropriations]	
McGill University, Montreal, Canada For support of collaborative research projects relevant to the health care of Ethiopians.	\$50,000	To continue support for two applied research programs focused on reducing the number of vaccine doses required to achieve full immunization and on improving the technology for delivery of stable and potent vaccines to target populations.	\$250,000
Task Force for Child Survival, Atlanta, Georgia Toward the costs of the Child Survival conference in Bangkok, Thailand and the Talloires targets.	\$22,500	(Joint appropriation with Population Science, for a total of \$500,000.)	
University of California, San Diego Toward travel expenses in connection with planning for the development of an Institute of Biomedical Sciences at the Faculty of Medicine,	\$5,000	Foundation-administered projects Toward meeting expenses related to the Children's Vaccine Initiative meeting at the Seven Springs Conference Center, Mt. Kisco, New York, February 3-5, 1991.	\$25,000
University of Costa Rica.		For travel expenses for third-world participants, per diems, and meeting room expenses for the oral	\$10,000
University of Dar es Salaam, Tanzania For use by its Muhimbili Medical Center toward the costs of establishing a laboratory for clinical	\$25,000	rabies vaccination meeting held in Atlanta, Georgia, in November 1990.	
research appropriate to the health care needs of Tanzania.		Family and Community-Based Health Initiatives	
University of Michigan, Ann Arbor For support of a collaborative pilot project entitled Development of a Respiratory Syncytial Vaccine."	\$15,000	AIDS and Reproductive Health [1990 - \$750,000, in addition to remaining funds from prior year appropriations]	<u></u>
University of Texas Medical Branch at Galeveston Toward support of a research project entitled Pathogenesis of Dengue Hemorrhagic Fever.''	\$30,000	To support multidisciplinary research on AIDS and reproductive health by developing-country scientists. (Joint appropriation with Population Sciences, for a total of \$1,500,000.)	
Vaccine Production Technology Transfer [1990 - \$1,000,000, in addition to remaining funds from prior year appropriations] To make viral vaccine production a generic and technically accessible process available at moderate cost to developing countries.		American Foundation for AIDS Research, New York, New York To support the African Technical Assistance Workshop under AmFAR's international program. (Joint allocation with Population Sciences, for a total of \$60,420.)	\$30,210

Australian National University, Canberra <i>Toward support of the West African Research</i> <i>Group on Sexual Networking (Joint allocation</i> <i>with Population Sciences, for a total of</i> \$60,000)	\$30,000	Community-based Control of Dengue [1990 - \$600,000, in addition to remaining funds from prior year appropriations] To continue support for community-based approaches to control of <u>Aedes aegypti</u> , the urban	
Centro Medico A S I A, Quito, Ecuador For a study of HIV-1 seroprevalence in prostitutes working in clandestine night clubs (Joint allocation with Population Sciences, for a total of \$14,780)	\$7,390	mosquito vector of dengue fever Johns Hopkins University, Baltimore, Maryland In second-year support for a research and training	\$950,000
Columbia University, New York, New York To train a Ugandan physician in the kinetics of complement and complement receptors in HIV-infected individuals (Joint allocation with	\$5,110	project testing community-based approaches to control of the urban mosquito vector of dengue fever, a disease now endemic in many tropical countries	
Population Sciences, for a total of \$10,220)		Pan American Health Organization, Washington, D C	\$200,000
Harvard University, Cambridge, Massachusetts To enable the School of Public Health to arrange meetings and provide communications facilities for	\$50,000	. Toward the costs of a community-based <u>Aedes aegypti</u> control project in Honduras	
the AIDS and Reproductive Network (Joini allocation with Population Sciences, for a total of \$125,000)		Harvard University, Cambridge, Massachusetts For use by the Center for Population Studies at its School of Public Health toward the publication costs of the June 1989 Health Transition workshop	\$12,500
Johns Hopkins University, Baltimore, Maryland To enable David Serwadda of Makerere University, Kampala, Uganda, to complete analysis of data	\$21,710	proceedings (Joint grant with Population Sciences, for a total of \$25,000)	
from the Rakat AIDS project and obtain additional epidemiology and research management training within the School of Hygiene and Public Health (Joint allocation with Population Sciences, for a total of \$43,420)		The Health Transition Program [1989 - \$175,000, in addition to remaining funds from prior year appropriations] In support of a bealth transition program which will	
University of California, San Francisco Supplemental funding for a collaborative study with Makerere University, Kampala, Uganda, to identify factors that intensify heterosexual	\$30,000	build the human capital for understanding and guide the social and biomedical interventions ne eded to advance better health at low cost in the developing countries (Joint appropriation with Population Sciences, for a total of \$350,000)	
transmission of buman immunodeficiency virus (Joint allocation with Population Sciences, for a total of \$60,000)		Australian National University, Canberra [1990 - \$155,000, in addition to remaining funds from prior year appropriations]	\$155,000
University College, London Toward the costs of a collaborative AIDS research project, in Abidjan, Ivory Coast, to examine the	\$25,000	To establish a new international journal, ''Health Transition Review'' (Joint appropriation with Population Sciences, for a total of \$310,000)	
morbidity anatomy of HIV-1 and HIV-2 infections (Joint allocation with Population Sciences, for a total of \$60,000)		For continued support of its Health Transition Centre (Joint allocation with Population Sciences, for a total of \$244,500)	\$122,250
University of Dar es Salaam, Tanzania For a study by the Muhimbili Medical Centre on co- factors for HIV 1 infection among women attending selected family planning clinics in Dar es Salaam (Joint allocation with Population Sciences, for a	\$60,000	Foundation-administered projects Toward the costs of the January 30, 1990, donor's meeting and consultant activities (Joint allocation with Population Sciences, for a total of \$50,000)	\$25,000
total of \$120,000)		Network steering committee meetings and workshops (Joint allocation with Population Sciences, for a total of \$90,000)	\$45,000
		For development activities, consultants, and site visits (Joint allocation with Population-Science for a total of \$10,000)	\$5,000

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Institut du Sahel, Bamako, Mali For use by its Centre d'Etudes et de Recherche sur la Population pour le Developpement in developing a health transition pilot project in Mali (Joint grant with Population Sciences, for a total of \$30,000)	\$15,000	Women for Women's Health Program [1990 \$350,000, in addition to remaining funds from prior year appropriations] To assist Malawi and Uganda to develop the capacity for training increased numbers of nurse- midwives and upgrading their skills and status as a	
International Women's Health Coalition, New York, New York [1990 - \$150,000, in addition to remaining funds from prior year appropriations] To continue support for the Coalition's reproductive	\$150,000	way of bringing about sustained reductions in maternal mortality and morbidity (Joint appropriation with Population Sciences, for a total of \$650,000)	
health program in selected countries of sub Saharan Africa (Joint appropriation with Population Sciences, for a total of \$300,000)		Case Western Reserve University, Cleveland, Ohio To cover the first-year costs of assigning two faculty members of its School of Nursing to Uganda to help develop a B S in Nursing program at Makarere	\$75,000
Nigerian Institute for Social and Economic Research, Ibadan To host an August 1990 meeting of a Nigerian task force to set priority research design themes for the development of a health transition pilot project (Joint grant with Population Sciences, for a total of \$13,500)	\$6,750	University, Kampala International Council of Nurses, Geneva, Switzerland Toward the costs of an August 1990 workshop in Malawi on "Nursing Regulation and Development of Nursing Standards"	\$15,000
The Population Council, New York, New York For the development of a microcomputer software system for Thailand and Indonesia (Joint grant with Population Sciences, for a total of \$50,000)	\$25,000	University of Pennsylvania, Philadelphia To cover the first-year costs of assigning three faculty members of its College of Nursing to the Kamuzu College of Nursing, University of Malawi, primarily to help design, implement, and teach a	\$210,000
Program for Appropriate Technology in Health (PATH), Seattle, Washington To test further and develop introduction strategies for its dipstick assay for HIV screening in the	\$42,070	new BS in Nursing program at Kamuzu, and to provide master's degree training at Pennsylvania for four Malawian nursing faculty members	
developing world (Joint grant with Population Sciences, for a total of \$84,140)		Fellowships	
Research and Policy Boards [1990 \$750,000, in addition to remaining funds from prior year appropriations] To continue support for the national health and family planning boards in Thailand and Mexico (Joint appropriation with Population Sciences, for a total of \$1,400,000)		Biotechnology Career Fellowships (Jointly funded with Agricultural Sciences and Population Sciences for a total of \$1,100,000)	\$319,700
Mexican Health Foundation, Mexico City For use by the Advisory Board in Epidemiology in funding epidemiological research and holding periodic meetings of the Board	\$350,000		
University of Alabama, Tuscaloosa For a study of vesico vaginal fistula in northern Nigeria (Joint grant with Population Sciences, for a total of \$64,640)	\$32,320		

Population Sciences Grants

Developing Technology for Fertility Regulation

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 strengthening the professional competence needed to establish population policies and effective management of family-planning programs.

All-India Institute of Medical Sciences, New Delhi	\$14,000
To enable Indian scientists to participate in	
an international conference on frontiers in	
reproductive physiology	
Catholic University of Chile, Santiago	\$4,850
For a pilot study to be conducted in the faculty of	
biological sciences on the endocrine role played by	
the mammary gland during lactation	
Columbia University, New York, New York	\$48,940
For a study of growth factor activity in the	
mammalian testes, to be conducted in its College	
of Physicians and Surgeons	
Contraceptive Introduction Projects	
[1990 - \$2,000,000]	
To promote field studies and operations research in	
developing countries as their family planning	
programs introduce new contraceptive methods	
(Grants will be made in subsequent years)	
Cornell University, Ithaca, New York	
For a collaborative program between Cornell	\$50,000
University Medical College and the Institute of	
Materia Medica and Family Planning Research of	
the Zhestang Academy of Medicine in the clinical pharmacology of contraception	
To enable the New York Hospital-Cornell Medical	\$35,000
Center to investigate the safety and acceptability of	φ, σ,
a spermicidal and virucidal compound known as	
gossypol vagınal cream	
Instituto Nacional de la Nutricion Salvador	\$300,000
Zubiran, Mexico City, Mexico	+ , • • •
[1990 - \$300,000, in addition to remaining funds	
from prior years appropriations]	
To renew support for the Institute's research and	
training program in human reproductive biology	
Johns Hopkins University, Baltimore, Maryland	\$65,000
For a study of the histological and physiological	
regulation of the corpus luteum	

Marine Biological Laboratory, Woods Hole, Massachusetts	\$99,000
For studies of gossypol action on Spisula sperm	
National Institute of Immunology, New Delhi, India [1990 - \$300,000, in addition to remaining funds from prior year appropriations]	\$300,000
To provide research support for the Institute's program in vaccine development directed toward fertility regulation	
National Museums of Kenya, Nairobi To strengthen the reproductive biology program in the Institute of Primate Research	\$54,000
The Population Council, New York, New York For research on human antisperm antibodies and the development of an antifertility vaccine	\$56,000
For study of the structure, function, and effects on fertility of a progesterone inhibitor found in bovine follicular fluid	\$66,000
For a study of sperm immobilizing factor found in human serum	\$55,000
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	
Brigham and Women's Hospital, Boston, Massachusetts To develop a model in the rat to evaluate gossypol's antifertility effects	\$43,320
Chiba University, Japan For a study of gossypol's effects on the differentiation of type A spermatogonia	\$50,000

Cornell University, Ithaca, New York For gossypol research at the New York Hospital- Cornell Medical Center	\$40,000	Research and Training in the Population Sciences in Sub-Saharan Africa [1989 - \$1,250,000, in addition to remaining funds	
Foundation-administered project For the purchase of gossypol to be used in research on its antifertility and antiviral activity	\$20,000	from prior year appropriations] To continue to sirengthen the capacity of African institutions and improve understanding of population irends in sub-Saharan Africa	
North Carolina State University, Raleigh For a study of gene regulation in rat spermatocytes after the cessation of gossypol treatment	\$59,430	Addis Ababa University, Ethiopia To enable a member of the medical faculty to attend a reproductive biology course in Makerere University organized by the Commonwealth	\$5,330
Tel Aviv University, Israel For a study of gossypol's effects on sperm thiol status, protein behavior, and fertilizing ability	\$66,000	Regional Health Secretariat of East, Central, and Southern Africa	
Uzbek Academy of Sciences, Tashkent, USSR For a study at its Institute of Bioorganic Chemistry on gossypol's structure and antifertility action	\$50,000	National Museums of Kenya, Nairobi For a workshop at the Institute of Primate Research on the preparation and application of monoclonal antibodies for research in reproductive biology	\$39,800
Research Support for Population Scientists in Reproductive Biology and Policy Studies Returning to Developing Countries [1989 - \$500,000, in addition to remaining funds		Nigerian Fertility Society, Jos For a meeting on fertility regulation, to be held in conjunction with the African Fertility Society	\$14,680
from prior year appropriations] To provide research support for population scientists returning to their home countries at the completion of fellowships (Other grants from this appropriation are listed under the division's		South-to-South Cooperation in the Population Sciences and Reproductive Health [1990 - \$2,000,000, in addition to remaining funds from prior year appropriations]	
second guideline, Improving Population Policies and Programs)		Asociación Dominicana Pro-Bienestar de la Familia, Inc , Santo Domingo, Dominican Republic	\$26,9 50
Alexandria University, Egypt For research on male fertility to be conducted in the Faculty of Medicine	\$34,000	For a phase I clinical trial with an anti-LHRH vaccine developed at the National Institute of Immunology, New Delhi, India	
Banaras Hindu University, Varanasi, India For a research project entitled "Interspecific Embryo Transfer and Management of Subsequent Pregnancy in the Recipient Animal"	\$62,430	Catholic University of Chile, Santiago To enable its Department of Endocrinology to train a colleague from the Shanghai Institute of Planned Parenthood Research, China	\$16,120
Catholic University of Chile, Santiago For a study to be conducted at the Faculty of Biological Sciences on the effects of human tubal fluid on sperm function	\$30,000	Centro de Pesquisa e Assistencia em Reproducão Humana (CPARH), Salvador, Brazil For a study of hormone levels in women using a single subdermal contraceptive implant containing nomegestrol acetate	\$45,200
University of Buenos Aires, Argentina For a study in the Faculty of Pharmacy and Biochemistry on oxidative damage to sperm and its relevance to human fertility	\$35,000	To enable the Center to coordinate an international multicenter study to develop a single contraceptive implant containing nomegestrol acetate	\$28,000
University of Chile, Santiago For research on the acrosome reaction in human sperm	\$25,000	Chinese Academy of Sciences, Beijing To enable the Shanghai Institute of Materia Medica to conduct clinical trials using gossypol as a gynecological agent	\$19,300
		Foundation-administered projects Meetings and consultants	\$200,000

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Universidad Nacional Autonoma de Mexico, Mexico City To enable its Faculty of Chemistry to synthesize the antiprogestin steroid 4-hydroxyandrostene-3,17	\$40,000	Center for Population Options, Washington, D C For an international forum on adolescent fertility, held in September 1990	\$10,000
dione for use by the South-to-South group		Emory University, Atlanta, Georgia	\$10,800
		For a project entitled "Family Planning	\$1 0,000
Universidad Católica de Valparaiso, Chile For a study of metabolic and membrane transport	\$33,000	An International Perspective "	
strategies to the study of male reproduction		Family Care International, New York, New York To support a conference on Safe Motherbood for	\$10,000
Universidad Nacional de Cuyo,	\$28,700	countries in the SADCC (Southern Africa	
Mendoza, Argentina For a workshop on modern light microscopy and		Development Coordination Conference) region	
video analysis, to be held at the Institute of		Foundation-administered project	\$3,000
Histology and Embryology		For a joint task force to develop a project to plan the	
University of Pennsylvania, Philadelphia [1990 - \$500,000, in addition to remaining funds	\$500,000	organization and evaluation for the introduction of new contraceptives in China	
from prior year appropriations]		Harvard University, Cambridge, Massachusetts	\$49,630
To enable the University to train physicians and scientists from Africa and Latin America in reproductive biology and fertility regulation.		For a study to be conducted in its School of Public Health on contraceptive failure in China	
For a meeting on uterine and embryonic factors in	\$48,200	International Union for the Scientific Study of	
early pregnancy, held at the Bellagio Study and	+ 10,200	Population, Liège, Belgium	405 000
Conference Center in October 1990		To enable participants from developing countries to attend a seminar entitled "The Fertility Transition	\$25,000
For a study of placental morpholgenesis to be	\$60,000	in Latin America "	
conducted in the School of Medicine		To strengthen population libraries in African	\$50,000
University of Salzburg, Austria	\$20,000	countries and to hold a workshop in Zimbabwe on	<i>+></i> •,• • •
For clinical and animal studies conducted at the	φ20,000	demographic surveys	
Department of Zoology using research protocols		International Women's Health Coalition,	\$50,000
and products developed by investigators associated with the South-to-South program.		New York, New York	φ20,000
and the South-to-South program.		To support a conference entitled "Reproductive	
University of Siena, Italy	\$25,000	Tract Infections in the Third World National and International Policy Implications ''	
To enable developing-country scientists to attend the Sixth International Congress on Spermatology			
the sixth international Congress on Spermatology		Latin American Social Science Research Council,	\$100,000
World Health Organization (WHO),	\$250,000	Buenos Aires, Argentina For its regional collaborative program on	
Geneva, Switzerland		population	
[1990 - \$250,000, in addition to remaining funds from prior year appropriations]			
To continue support for two applied research		National Academy of Sciences, Washington, D C	\$50,000
programs focused on the number of vaccine doses		To enable Africans to participate in the Academy's Panel on Population Dynamics of	
required to achieve full immunization and on improving the technology for delivery of stable		Sub-Saharan Africa.	
and potent vaccines to target populations. (Joint			
appropriation with Health Sciences, for a total of		National Archives Trust Fund Board, Washington, D.C	\$15,000
\$500,000)		Toward the collection and publication of the papers	
		of Margaret Sanger (Joint grant with Arts and	
Improving Population Policies and Programs		Humantties, for a total of \$30,000.)	
		National University of Benin, Cotonou	\$19,480
Academia Mexicana de Investigacion en Demografia Medica, A.C., Mexico City <i>To hold a workshop to reduce rates of maternal and</i>	\$50,000	To evaluate the effectiveness of a program designed to lower the rates of maternal mortality in Cotonou	
child mortality in Latin America		Population Crisis Committee, Washington, D.C.	\$50,000
		For the preparation of population policy	
		information kits and their distribution in developing countries	
		developing countries	

Population Resource Center, New York, New York In support of its informational programs on global population issues.	\$50,000	R. Wong and R. Levine, Johns Hopkins University, Baltimore, Maryland For a study of household structure in urban Mexico and its implications for women's child care and market activities.
Princeton University, New Jersey For a study of birth-spacing and infant health in the Philippines.	\$48,750	Research Support for Population Scientists in Reproductive Biology and Policy Studies
For a study in the Office of Population Research on fertility and family formation in communities in western Mexico.	\$40,700	Returning to Developing Countries (Other grants from this appropriation are listed under the division's first guideline, Developing Technology for Fertility Regulation.)
To enable the Office of Population Research to develop statistical models for demographic data.	\$35,170	International Institute of Population Sciences, Bombay, India
Research on Evaluation of Family Planning Programs in Developing Countries [1989 - \$500,000, in addition to remaining funds		For a research project entitled "Birth Interval Dynamics in the Study of Fertility: Estimation and Analysis."
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.		Research and Training in the Population Sciences in Sub-Saharan Africa (Other grants from this appropriation are listed under the division's first guideline, Developing Technology for Fertility Regulation.)
Cairo Demographic Centre, Egypt For a study of the quality of family planning services in Egypt.	\$75,600	Africa Press Trust, Lusaka, Zambia For a worksbop on population and media issues.
Foundation-administered project Personnel and publication costs.	\$60,000	Commonwealth Regional Health Community Secretariat for East, Central, and Southern Africa, Arusha, Tanzania For a study of the risk factors associated with
Research on the Relationship between the Status of Women in Developing Countries and Fertility [1990 - \$300,000, in addition to remaining funds		maternal mortality in Lesotho, Malawi, Uganda, and Zambia.
from prior year appropriations] To continue support for research on women's status and fertility in developing countries.		B. J. Feyisetan, O. A. Ogunbameru, and E. O. Ojofeitimi, Obafemi Awolowo University, Ile-Ife, Nigeria For a study of the impact of cultural beliefs and
T. E. Fricke and W. G. Axinn, University of	\$59,410	practices on child health among the Yoruba.
Michigan, and I. Shrestha, Integrated Development Systems, Kathmandu, Nepal For a study of the effects of women's autonomy on fertility, the adoption of contraception, and the desire for children among the Tamang of Nepal.		Makerere University, Kampala, Uganda For a study of the determinants of high fertility in Ankole, Uganda.
Mahidol University, Bangkok, Thailand To study the interrelationships between child care arrangements, women's status, and fertility in urban Thailand.	\$5,520	G. E. O. Ogum and A. O. Okeke, Anambra State University of Technology, Awka, Nigeria For a study of how female student-teachers in Anambra and Imo States of Nigeria perceive Nigeria's population policy.
University of Michigan, Ann Arbor For a comparative study of women's status and fertility in five Asian countries.	\$190,200	A. Okore, A. Okorafor, and P. Nwakeze, University of Nigeria, and D. Gurak, Cornell University, Ithaca, New York For a study of the health-seeking behavior of
University of Pennsylvania, Philadelphia For a comparative study of women's status and	\$109,800	mothers and child survival in Anambra State, Nigeria.
fertility in five Asian countries.		South-to-South Cooperation in the Population Sciences and Reproductive Health (Other grants from this appropriation are listed under the division's first and third guidelines, Developing Technology for Fertility Regulation and Family and Community-based Health Initiatives.)

\$39,340

\$24,930

\$35,000

\$90,750

\$48,930

\$38,340

\$6,480

\$79,330

Centro de Pesquisa e Assistencia em Reproducão Humana (CPARH), Salvador, Brazil To enable the Center to participate in an international multicentered study using a low dose of gossypol as a male contraceptive	\$93,350
University of Lagos, Nigeria To enable its Department of Obstetrics and Gynecology to participate in an international study to quantify the health benefits of contraceptive counseling for young women at risk of repeated abortions	\$12,800
University of Zimbabwe, Harare To enable its Department of Obstetrics and Gynecology to participate in an international study to quantify the health benefits of contraceptive counseling for young women at risk of repeated abortions	\$6,190
University of North Carolina at Chapel Hill For a project at the Carolina Population Center designed to strengthen multidisciplinary population study programs	\$24,800
The World Bank, Washington, D C For its program to improve the implementation of population programs in sub-Saharan Africa in the 1990s	\$25,000
Family and Community-based Health Initiatives	
AIDS and Reproductive Health [1990 - \$750,000, in addition to remaining funds from prior year appropriations] To support multidisciplinary research on AIDS and reproductive health by developing country scientists (Joint appropriation with Health Sciences, for a total of \$1,500,000)	
American Foundation for AIDS Research, New York, New York To support the African Technical Assistance	\$30,210
Workshop under AmFAR's international program (Joint allocation with Health Sciences, for a total of \$60,420)	
Workshop under AmFAR's international program (Joint allocation with Health Sciences, for a total of	\$30,000
Workshop under AmFAR's international program (Joint allocation with Health Sciences, for a total of \$60,420) Australian National University, Canberra Toward support of the West African Research Group on Sexual Networking (Joint allocation	\$30,000 \$7,390

Harvard University, Cambridge, Massachusetts To enable the School of Public Health to arrange meetings and provide communications facilities for the AIDS and Reproductive Health Network (Joint allocation with Health Sciences, for a total of \$125,000)	\$75,000
Johns Hopkins University, Baltimore, Maryland To enable David Serwadda to complete epidemiology and research management training at the School of Hygiene and Public Health (Joint allocation with Health Sciences, for a total of \$43,420)	\$21,710
University of California, San Francisco Supplemental funding for a collaborative study with Makerere University, Kampala, Uganda, to identify factors that intensify heterosexual transmission of human immunodeficiency virus (Joint allocation with Health Sciences, for a total of \$60,000)	\$30,000
University College, London, England Toward the costs of a collaborative AIDS research project, in Abidjan, Ivory Coast, to examine the morbidity anatomy of HIV-1 and HIV-2 infections. (Joint allocation with Health Sciences, for a total of \$120,000)	\$25,000
University of Dar es Salaam, Tanzania For a study by the Muhimbili Medical Centre on co- factors for HIV-1 infection among women attending selected family planning clinics in Dar es Salaam (Joint allocation with Health Sciences, for a total of \$120,000)	\$60,000
Harvard University, Cambridge, Massachusetts For use by the Center for Population Studies at its School of Public Health toward the publication costs of the June 1989 Health Transition workshop proceedings (Joint grant with Health Sciences, for a total of \$25,000)	\$12,500
Health Transition Program [1989 - \$175,000, in addition to remaining funds from prior year appropriations] In support of a health transition program which will build the human capital for understanding and guide the social and hiomedical interventions needed to advance better health at low cost in the developing countries (Joint appropriation with Population Sciences, for a total of \$350,000)	
Australian National University, Canberra [1990 - \$155,000, in addition to remaining funds from prior year appropriations] To establish a new international journal, "Health Transition Review" (Joint appropriation with Health Sciences, for a total of \$310,000)	\$155,000

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For continued support of its Health Transition Centre. (Joint allocation with Health Sciences, for a total of \$244,500.)	\$122,250
Foundation-administered projects Toward the costs of the January 30, 1990 donor's meeting and consultant activities. (Joint allocation with Health Sciences, for a total of \$50,000)	\$25,000
Network steering committee meetings and workshops. (Joint allocation with Health Sciences, for a total of \$90,000.)	\$40,000
Institut du Sahel, Bamako, Mali For use by its Centre d'Etudes et de Recherche sur la Population pour le Developpement (CERPOD) in developing a Health Transition pilot project in Mali. (Joint grant with Health Sciences, for a total of \$30,000.)	\$15,000
International Women's Health Coalition, New York, New York [1990 - \$150,000, in addition to remaining funds from prior year appropriations] To continue support for the Coalition's reproductive health program in selected countries of sub-Saharan Africa. (Joint appropriation with Health Sciences, for a total of \$300,000.)	\$150,000
Nigerian Institute of Social and Economic Research (NISER), Ibadan To bost a Nigerian task force meeting to prioritize research design themes for the development of a Health Transition pilot project. (Joint grant with Health Sciences, for a total of \$13,750.)	\$6,750
Population Council, New York, New York For the development of a microcomputer software system for Thailand and Indonesia. (Joint grant with Health Sciences, for a total of \$50,000.)	\$25,000
Program for Appropriate Technology in Health (PATH), Seattle, Washington To test further and develop introduction strategies for its dipstick assay for HIV screening in the developing world. (Joint grant with Health Sciences, for a total of \$84,140.)	\$42,070
To assess the feasibility of establishing a model program for the control of sexually transmitted diseases in selected African countries.	\$86,340
Research and Policy Boards [1990 - \$650,000, in addition to remaining funds from prior year appropriations] To continue support for the national health and family planning boards in Thailand and Mexico.	

(Joint appropriation with Health Sciences, for a total of \$1,400,000.)

South-to-South Cooperation in the Population Sciences and Reproductive Health	
(Other grants from this appropriation are listed	
under the division's first and second guidelines,	
Developing Technology for Fertility Regulation and	
Improving Population Policies and Programs.)	
Instituto Nacional de La Nutricion Salvador Zubiran, Mexico City, Mexico	\$33,700
To evaluate the antiviral activity of gossypol in men infected with HIV.	
University of Alabama, Tuscaloosa	\$32,320
For a study of vesico-vaginal fistula in northern	
Nigeria. (Joint grant with Health Sciences, for a total of \$64,640.)	
University of Nairobi, Kenya	\$100,000
For a study in its Department of Medical	
Microbiology on the rate of development	
of symptomatic HIV-1-related disease in African women.	
Women for Women's Health	
[1990 - \$300,000, 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 \$650,000.)	
Case Western Reserve University, Cleveland, Ohio	\$75,000
To help Uganda develop the capacity to train larger	
numbers of nurse-midwives and upgrade their skills	
and status. (Joint allocation with Health Sciences, for a total of \$150,000.)	
International Council of Nurses, Geneva,	\$15,000
Switzerland	Ψ19,000
Toward the costs of a workshop in Malawi on	•
Nursing Regulation and Development of Nursing	
Standards." (Joint allocation with Health Sciences,	
for a total of \$30,000.)	
	\$210,000
University of Pennsylvania, Philadelphia	
To help Malawi develop the capacity to train larger	

Fellowships

Biotechnology Career Fellowships (Jointly funded with Agricultural Sciences and Health Sciences, for a total of \$1,100,000.)

\$83,200

Global Environmental Program 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 new initiative are carried out through the agricultural, health, and populations sciences divisions.

African Centre for Technology Studies, Nairobi, Kenya For a conference on "Global Warming and Climate Change: Perspectives from Africa," held in Nairobi, May 2-4, 1990.	\$100,000	A China Initiative, Beijing [1990 - \$200,000] To support an "International Workshop on Strategies and Policies of Environmental Protection for China," to be coordinated by the Chinese National Environmental Protection Agency and the	
American Academy of Arts and Sciences, Cambridge, Massachusetts Toward a conference on US-USSR environmental- protection institutions to be held at Bellagio, Italy, in August 1991.	\$25,000	Development Research Center of the State Council of China. Climate Institute, Washington, D.C. To prepare and conduct senior-level policy briefings in major developing countries that are a focus of its	\$100,000
Asia Society, New York, New York Toward the costs of organizing a public education program on environmental activism in Asia.	\$40,000	global environmental activity. Committee of Soviet Scientists, Moscow, The Soviet Union	\$50,000
Bellagio Series on the Environment [1989 - \$525,000] To fund a special series of ten Bellagio conferences on the environment.		Toward planning and organizational activities for participation in the 21st Century Leadership Development Program.	7
International Foundation for the Survival and Development of Humanity, San Francisco, California For a seminar entitled "Energy Efficiency for a	\$33,000	Conservation International, Washington, D.C. Toward the establishment of an ad hoc Ecosystem Conservation Task Force to search for solutions to the rapid destruction of North America's temperate rainforests.	\$50,000
Sustainable World," held at the Bellagio Study and Conference Center, June 25-30, 1990.		To develop markets and ecologically sound production systems for tropical forest products.	\$75,000
International Institute for Environment and Development, London, England Toward a meeting which assessed the role of economics in managing environmental problems, held at the Bellagio Study and Conference Center, April 8-12, 1990.	\$46,500	Conservation Law Foundation, Inc., Boston, Massachusetts Toward the development of a nationwide energy- efficiency program in Jamaica.	\$100,000
Tata Energy Research Institute, New Delhi, India For a meeting entitled "Developing Country Perspectives for Protecting the Global Commons,"	\$54,000	Consultative Group on Biological Diversity, New York, New York Toward its 1990-91 program activities.	\$40,000
held at the Bellagio Study and Conference Center, November 26-30, 1990.		Cornell University, Ithaca, New York Toward planning activities for a collaborative program with the University of São Paulo, Brazil,	\$15,000
Biomass Users Network, Inc., Washington, D.C. [1990 - \$375,000] To strengthen its capacity to help developing countries plan and implement science-based projects that utilize renewable resources for ecologically sound economic development.	\$375,000	program with the University of Sao Paulo, brazil, on global environmental accords. (Joint grant with Arts and Humanities, for a total of \$30,000.)	
For evaluation of sugarcane-to-energy technologies.	\$63,000		

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Earth Day 1990, Stanford, California To provide support for Earth Day 1990 activities in developing countries.	\$50,000	Massachusetts Institute of Technology, Cambridge To develop a model to assess the impact of greenhouse gas emissions constraints on economic	\$67,050
Environmental Defense Fund, New York, New York	\$85,000	development in India.	
To facilitate participation by nongovernmental organizations, particularly from developing countries, in the process of formulating an international accord on climate change.		National Academy of Engineering Fund, Washington, D.C. In support of an International Worksbop on Chlorofluorocarbon Substitution Technology	\$84,000
Environmental and Energy Study Institute, Washington, D.C.	\$25,000	Transfer, co-sponsored by the United Nations Environmental Program and the U.S. National Academy of Engineering Fund.	
Toward the travel expenses of parliamentarians from developing and Eastern European nations who participated in the Interparliamentary Conference on the Global Environment, held April 29-May 2, 1990, in Washington, D.C.		Natural Resources Defense Council, New York, New York To implement an energy-efficiency demonstration project with USSR GOSSTROI, in Tallinn, Estonia, and to establish a nationwide database of	\$95,000
Food and Agriculture Organization of the United Nations, Rome, Italy <i>Toward the costs of a meeting of the Special</i>	\$70,000	environmental problems in the Soviet Union with the Socio-Ecological Union.	
Commission on Environment of the Amazon Cooperation Treaty. (Joint grant with Agricultural Sciences, for a total of \$90,000.)		People's Government of the Hainan Province, China For the first meeting of the "International Advisory Council on the Economic Development of Hainan	\$50,000
Indira Gandhi Institute of Development Research, Bombay, India <i>Toward the costs of a research study on</i>	\$20,000	in Harmony with the Natural Environment," beld in Haikou City, Hainan, September 12-15, 1990.	
Sustainable Development, Global Commons and India's Policy Options."		People's University of China, Beijing Toward the costs of translating into Chinese and publishing in China 15 Resources for the Future	\$50,000
INFORM Inc., New York, New York Toward the costs of an outreach project in Mexico to introduce leaders from industry, government, and	\$70,000	books on environmental and natural resources economics.	
nongovernmental organizations to concepts of industrial toxic waste reduction.		Princeton University, New Jersey For a summer school on science and world affairs. (Joint grant with Special Interests and	\$25,000
Institute for Research on Public Policy, Ontario, Canada	\$100,000	Explorations, for a total of \$50,000.)	
To conduct a research project leading to the publication of a book entitled <u>The Politics of</u> <u>Prevention: The Greening of Politics and the</u> <u>Politics of Greening</u> .		Resources Development Foundation, New York, New York To assist developing countries in selecting energy supply and transmission systems.	\$50,000
Institute of Amazon Studies, Curitiba, Brazil Toward a conference to be held in Brazil in 1991 on extractive reserves in the Brazilian Amazon.	\$15,000	Rocky Mountain Institute, Snomass, Colorado To meet preliminary research and administrative expenses of Phase I of the Bombay Efficient Lighting Large-Scale Experiment (BELLE), which is	\$25,000
International Institute for Energy Conservation, Washington, D.C. <i>Toward development of a CFC-free, energy-efficient</i>	\$50,000	being managed in the United States by the Rocky Mountain Institute.	
refrigerator for manufacture in India.		SatelLife, Cambridge, Massachusetts Toward the pilot phase of a communications	\$60,000
Leadership Development Program [1990 - \$1,000,000] To initiate the "21st Century Leadership Development Program," a global network of leaders dedicated to environmentally sound development strategies. (Grants will be made		network connecting five universities in East and southern Africa. (Joint grant with Health Sciences, for a total of \$65,000.)	

Scientific Committee on Problems of the Environment (SCOPE), Paris, France For a workshop on "Recent Approaches and Methods for the Sustainable Use of Land in Latin America," held in Chile, July 1990.	\$50,000	University of São Paulo, Brazil Toward the costs of a field course on groundwater pollution, a joint project of the University and Canada's International Development Research Centre, held in São Paulo in September 1990.	\$25,000
Social Science Research Council, New York, New York For two meetings of the SSRC Committee for Research on Global Environmental Change.	\$14,000	U.S. Energy Program [1990 - \$2,200,000] To establish the Energy Foundation and its program on U.S. energy efficiency and renewable energy sources — a collaborative initiative with the	
Tata Energy Research Institute, New Delhi, India Toward operating funds of its project, Tata Energy and Resources Institute, in Washington, D.C.	\$50,000	MacArthur Foundation and the Pew Charitable Trusts.	# 100 000
Tufts University, Medford, Massachusetts	\$50,000	Trust for Public Land, San Francisco, California Toward operating costs of the energy project.	\$200,000
For a conference on "The Role of University Presidents in Environmental Management and Sustainable Development," held in Talloires, France, October 3-7, 1990.		Women USA Fund, Inc., New York, New York To increase women's global participation and influence in environmental policymaking and activities.	\$25,000
United Nations Conference on Environment and Development [1990 - \$490,000] To strengthen selected activities that advance the interests of developing countries in the preparatory work of the 1992 United Nations Conference on Environment and Development.		The World Bank, Washington, D.C. For a workshop in the spring of 1991 to review The World Bank's study on the efficiency and environmental impact of coal use in the People's Republic of China.	\$20,000
International Nongovernmental Support Fund, Washington, D.C.		World Meteorological Organization, Geneva, Switzerland To cover the travel expenses of developing-country	\$50,000
For internships to facilitate the participation by young scientists and nongovernmental organization leaders from the developing countries in the substantive affairs of the Conference.	\$150,000	participants in upcoming meetings of the Intergovernmental Panel on Climate Change. World Resources Institute, Washington, D.C.	\$300,000
Toward the establishment of an advanced information-processing, telecommunications, and electronic-conferencing system to facilitate participation by developing-country organizations in the preparatory process for the Conference.	\$190,000	[1990- \$300,000] To enable economists in Mexico and India to collaborate with the World Resources Institute on introducing into national income accounts adjustments that reflect natural resource exploitation.	\$200,000
United Nations Centre on Transnational Corporations, New York, New York To facilitate, in preparation for the Conference, discussions regarding various policy options for accelerating the transfer of environmentally sound technologies on terms favorable to developing countries.	\$150,000		
University of California, Hastings College of the Law, San Francisco Toward Hastings International and Comparative Law Review's symposium, "International Environmental Law: Global Trends and Policy," held in San Francisco on February 23, 1991.	\$2,000		

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Special Programming Grants

Special programming supports a small number of projects in science-based development that cross the traditional boundaries of the agriculture, health, and population divisions.

Africa Leadership Foundation, New York, New York Toward the 1990 activities of the Africa Leadership Forum, including its sponsorship of efforts to mediate in the civil war in Sudan	\$50,000	Adesegun Akın-Olugbade, doctoral candidate from Nigeria, award administered by Harvard University, Cambridge, Massachusetts To conduct dissertation research at the African Development Bank Research Title "Feasibility of Region Wide Banking in West Africa Comparative	\$18,500
African Academy of Sciences, Nairobi, Kenya [1990 - \$400,000, in addition to remaining funds from prior year appropriations]	\$400,000	Analysis of Laws and Regulations Governing the Entry and Operations of Banks in Anglophone and Francophone West Africa "	
To support the Academy's efforts to develop a core program of activities designed to mobilize and strengthen the African scientific community's contribution to development		Alemaya University of Agriculture, Ethiopia For administrative costs associated with Yohannes Kebede's affiliation with the university	\$2,500
Toward a pre-feasibility study for the African Foundation for Research and Development	\$25,000	Adewale Johnson Alonge, doctoral candidate from Nigeria, award administered by Iowa State University, Ames	\$22,200
African Dissertation Internship Awards [1990 - \$1,000,000, in addition to remaining funds from prior year appropriations] To enable outstanding African graduate students enrolled in North American universities to undertake supervised doctoral research in Africa, as a means of increasing the relevance of their work to		To conduct dissertation research at the International Institute of Tropical Agriculture, Ibadan Research Title "An Evaluation of the Adoption of Agronomic Technologies Developed by the International Institute of Tropical Agriculture by Farmers in Southwestern Nigeria"	
a future career in that region Zeinab Abdel-Sayed, doctoral candidate from Sudan, award administered by Cornell University, Ithaca, New York To conduct dissertation research at the Ministry of Health's Children's Emergency Hospital in Khartoum, Sudan Research Title "Study of the	\$28,335	Daniel Ayana, doctoral candidate from Ethiopia, award administered by the University of Illinois, Urbana-Champaign To conduct dissertation research at Addis Ababa University Research Title "Land and the Development of Coffee as a Cash Crop in Modern Ethiopia 1896-1974"	\$25,100
Determinants Involved in the Etiology of Maramus and Kwashiorkor in Sudanese Children "		Bayero University, Kano, Nigeria For administrative costs associated with Safianu Rabiu's affiliation with the university	\$2,500
Addis Ababa University, Ethiopia For administrative costs associated with Daniel Ayana's affiliation with the university	\$2,500	Taddesse Berisso, doctoral candidate from Ethiopia, award administered by Michigan State	\$26,400
For administrative costs associated with Taddesse Berisso's affiliation with the university	\$2,500	University, East Lansing To conduct dissertation research at Addis Ababa University, Ethiopia Research Title ''Villagization	
For administrative costs associated with Guluma Gemeda's affiliation with the university	\$2,500	in Ethiopia The Case of Jemjem Province"	#3/ EAA
For administrative costs associated with Derege Kebede's affiliation with the university	\$2,500	Salına Jepkoech Cheserem, doctoral candıdate from Kenya, award admınıstered by McGıll Unıversıty, Montreal, Canada To conduct dissertatıon research at the Jomo	\$26,500
African Academy of Sciences, Nairobi, Kenya To continue to explore and institute mechanisms for ensuring the integration of the Foundation's African Dissertation Internship awardees into the African scientific community once they have finished their graduate work	\$35,000	Kenyatta University College of Agriculture and Technology Research Title "Primary Schooling, Petty Trading, and Women's Autonomy in Rural Kenya"	

Chitedze Agricultural Research Station, Lilongwe, Malawi	\$2,500	International Institute of Tropical Agriculture, Ibadan, Nigeria	\$2,500
For administrative costs associated with Allan James Chiyembekeza's affiliation with the university		For administrative costs associated with Adewale Johnson Alonge's affiliation with the university	
Allan James Chiyembekeza, doctoral candidate	\$25,800	Jomo Kenyatta University College of Agriculture and Technology, Nairobi, Kenya	\$2,500
from Malawı, award admınıstered by the University of Florida, Marianna		For administrative costs associated with Salina Jepkoech Cheserem's affiliation with the university	
To conduct dissertation research at the Chitedze Agricultural Research Station Research Title		Derege Kebede, doctoral candidate from Ethiopia,	\$28,000
"Inheritance of Components of Resistance to Late Leafspot in Peanut "		award administered by Harvard University, Cambridge, Massachusetts	
John Peter Esele, doctoral candidate from Uganda,	\$29,200	To conduct dissertation research at Addis Ababa University, Ethiopia Research Title "Risk	
award administered by Texas A&M University, College Station		Factors for Acute Lower Respiratory Infections in Children "	
To conduct dissertation research at the Ministry of Agriculture Research Title "The Genetics of		Yohannes Kebede, doctoral candidate from	\$28,600
Grain-Mold Resistance in Sorghum "		Ethiopia, award administered by McGill University, Montreal, Canada	
Peter Maina Gatongi, doctoral candidate from Kenya, award administered by McGill University,	\$29,000	To conduct dissertation research at the Alemaya University of Agriculture, Ethiopia	
Montreal, Canada		Research Title "The Micro Economics of	
To conduct research at the Kenya Agricultural Research Institute Research Title "The		Household Decision Making The Adoption of Vertisol Management, Forage and Cattle Related	
Significance of Hypobiosis in the Epidemiology and		Technologies Among Small Holder Mixed Farmers	
Control of Gastrointestinal Nematodes of Small Ruminants in a Marginal Area of Kenya ''		in the Central Ethiopian Highlands "	
	¢2.4.100	Lucy Abosede Kehinde, doctoral candidate from	\$28,600
Guluma Gemeda, doctoral candidate from Ethiopia, award administered by Michigan State	\$24,100	Nigeria, award administered by the University of Illinois, Urbana-Champaign	
University, East Lansing To conduct dissertation research at Addis Ababa		To conduct dissertation research at the Nigerian Institute of Social and Economic Research, Ibadan	
University Research Title "Land, Agriculture, and		Research Title "The Influence of Extension and	
Society in Southwestern Ethiopia, c 1850-1974 ''		Other Information Sources on the Adoption of a New Technology A Study of the Adoption of	
Gamal Hamid, doctoral candidate from Sudan,	\$21,200	Soybean Production Technology and Utilization	
award administered by University of California, Los Angeles		Among Small-Scale Farmers in Southwestern Nigeria ''	
To conduct research at the University of Khartoum, Sudan Research Title "An Investigation into		- Kenya Agricultural Research Institute, Nairobi	
Housebold Sustenance Activities and Involuntary		For administrative costs associated with Patrick	\$2,500
Migration in Sub-Saharan Africa ''		Sankale Shompole's affiliation with the university	
Institut National de Recherches Agronomiques du Niger, Niamey	\$2,500	For administrative costs associated with Peter Maina Gatongi's affiliation with the university	\$2,500
For administrative cosis associated with Christophe G L Zaongo's affiliation with the university		Peter Kima, doctoral candidate from Cameroon,	\$28,600
		award administered by Habnemann University, Philadelphia, Pennsylvania	
Institut Supérieur Scientifique, Nouakchott, Mauritania	\$2,500	To conduct dissertation research at the University of	
For administrative costs associated with Amadou		Yaoundé, Cameroon Research Title "Identification of Malarial Antigens Inducing	
Khoudied11 Thiam's affiliation with the university		Protective Cell-Mediated Immune Responses "	
		Augustine Konneh, doctoral candidate from	\$24,700
		Liberia, award administered by Indiana University, Bloomington	
		To conduct dissertation research at Fourab Bay College, Sierra Leone Research Title "Indigenous	
		Capitalisis and Entrepreneurs The Role of	
		Mandinka in the Economic Development of Liberia, 1870-1990 ''	

Lily Mafela, doctoral candidate from Botswana, award administered by Northwestern University, Evansion, Illinois To conduct dissertation research at the University of Botswana, Gaborone Research Title "Gender and Ideology Colonialism and Women's Education in Botswana"	\$23,200	Safianu Rabiu, doctoral candidate from Nigeria, award administered by Old Dominion University, Norfolk, Virginia To conduct dissertation research at Bayero University, Kano, Nigeria Research Title "The Ecology of Three Species of Rodents in Natural and Agricultural Fields in Northern Nigeria."	\$27,400
Makerere University, Kampala, Uganda For administrative costs associated with Fred Wabwire-Mangen's affiliation with the university	\$2,500	Patrick Sankale Shompole, doctoral candidate from Kenya, award administered by Washington State University, Pullman	\$28,500
Sipho Masilela, doctoral candidate from Nigeria, award administered by the University of Iowa, Iowa City To conduct dissertation research at the University of Nairobi, Kenya Research Title "Communication	\$24,400	To conduct dissertation research at the Kenya Agricultural Research Institute Research Title "Evaluation of the Protective Immune Response in Calves Induced by Conserved Babasia Bibemina Infected Erythrocyte Surface Antigens"	
Strategies for Community Participation in Project Decision Making A Comparative Case Study in Nairobi, Kenya''		Amadou Khoudiedji Thiam, doctoral candidate from Mauritania, award administered by Clark University, Worcester, Massachusetts	\$27,800
Ministry of Agriculture, Entebbe, Uganda For administrative costs associated with John Peter Esele's affiliation with the university	\$2,500	To conduct dissertation research at the Institut Supérieur Scientifique, Mauritania Research Title "Remote Sensing and Geographic Information	
Ministry of Agriculture, Livestock, and Forestry, Kigali, Rwanda For administrative costs associated with Vincent	\$2,500	Systems for Monitoring Land Degradation in Soutbern Mauritania "	
Nyamulinda's affiliation with the university		University of Botswana, Gaborne For administrative costs associated with	\$2,500
Ministry of Health, Khartoum, Sudan For administrative costs associated with Zeinab Abdel-Sayed's affiliation with the hospital	\$2,500	Lily Mafela's affiliation with the university University of Khartoum, Sudan	\$2,500
Lucy N Ngoh, doctoral candidate from Cameroon, award administered by the University of Texas	\$26,500	For administrative costs associated with Gamil Hamid's affiliation with the university	
at Austin To conduct dissertation research at the University of Yaoundé, Cameroon Research Title "A Study of the Comprehension of Antibiotic Instructions and		University of Liberia, Monrovia For administrative costs associated with Moses Moroe Zinnah's affiliation with the university	\$2,500
Their Utilization in a Primary Health Care Setting in Cameroon "		University of Nairobi, Kenya For administrative costs associated with Sipho Masilela's affiliation with the university	\$2,500
Nigerian Institute of Social and Economic Research, Ibadan	\$2,500	University of Yaoundé, Cameroon	
For administrative costs associated with Lucy Abosede Kehinde's affiliation with the Institute		For administrative costs associated with Peter Kima's affiliation with the university	\$2,500
Njala University College, Sierra Leone For administrative costs associated with Moses Moroe Zinnah's affiliation with the university	\$500	For administrative costs associated with Lucy N Ngoh's affiliation with the university	\$2,500
Vincent Nyamulinda, doctoral candidate from Rwanda, award administered by Clark University, Worcester, Massachusetts To conduct dissertation research at the Ministry of Agriculture, Livestock, and Forestry, Rwanda Research Title "Assessing Soil Erosion, Conservation, and Agriculture in Cropping Systems of Northern Rwanda"	\$28,800	Fred Wabwire-Mangen, doctoral candidate from Uganda, award administered by Johns Hopkins University, Baltimore, Maryland To conduct dissertation research at Makerere University, Kampala, Uganda Research Title "Maternal and Placental Risk Factors for Vertical Transmission of HIV-1 Infection in Uganda"	\$26,900

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Christophe G L Zaongo, doctoral candidate from Burkina Faso, award administered by Texas A&M University, College Station To conduct dissertation research at the Institut National de Recherches Agronomiques du Niger Research Title "The Interactive Effects of Water and Nutrients on Sorghum Growth in a Sabelian Soil-Plant-Atmosphere Continuum"	\$28,700	University of Zimbabwe, Harare Toward the costs of enabling certain key African educators to participate in the Harare Generator, an international conference on innovation in science and education, held at the University of Zimbabwe in January 1991 Foundation-administered projects	\$28,000
	#15 000	Program support expenses	\$100,000
Moses Moroe Zinnah, doctoral candidate from Liberia, award administered by the University of Wisconsin-Madison To conduct dissertation research at the University of	\$15,000	Costs of a workshop on popularization of science and technology in West Africa	\$15,000
Liberia, Monrovia Research Title "An Analysis of Factors Influencing Small Farmers' Adoption of		Beyond Child Survival Program [1988 - \$485,000]	
Improved Swamp Rice Production Practices in an Integrated Agricultural Development Project in Liberia "		To help developing countries generate and use information on program management and mothers' behavior to improve nutritional status for high-risk preschool children, thereby ensuring that technical	
Foundation-administered projects To enable African host-institution supervisors to attend the interns' dissertation defense	\$10,000	knowledge about nutritional deficiencies can be translated into action	
Program support expenses	\$25,000	Foundation-administered project Honoraria, technical assistance, and travel expenses related to consultants' analyses of past attempts to	\$39,000
African Economic Research Consortium Program [1990 - \$200,000, in addition to remaining funds		institutionalize nutrition data	
from prior year appropriations]		Council for the Development of Economic	\$60,000
To support the introduction of a new training		and Social Research in Africa (CODESRIA),	1
program within the African Economic Research		Dakar, Senegal	
Consortium designed to help build human capital in		Toward the costs of a conference entitled	
economic policy research and policy management in sub-Saharan Africa		"Academic Freedom Research and the Social Responsibility of the Intellectual in Africa," held November 26-29, 1990, in Uganda	
Foundation-administered project		1.000m001.20.27,2770,00 CAmmu	
Program support expenses	\$700,000	Cornell University, Ithaca, New York	\$50,650
African Forum for Children's Literacy in Science and Technology		For an analysis of the relationship between child anthropometry and mortality in northern Malawi	
[1990 - \$400,000, in addition to remaining funds from prior year appropriations] To generate popular understanding in Africa among		Female Participation in African Education [1990 - \$1,000,000, in addition to remaining funds	
children and young adults of the practical applications of science and technology		from prior year appropriations] To improve understanding of sex differences in	
applications of service and recombing		school participation in sub Saharan Africa and help	
Makerere University, Kampala, Uganda Toward the costs of expanding Mindsacross, a project designed to encourage primary and	\$54,000	African countries design and test policies to increase female attendance and educational performance	
secondary school students in Africa to practice and consolidate their skills in functional and		Foundation-administered projects Program support expenses	\$30,000
conceptual literacy		•	
Mazingira Institute, Nairobi, Kenya Toward the costs of Mazingira Magazine, an interactive comic strip publication	\$75,000	Costs of a worksbop on constraints to female education in sub-Saharan Africa	\$27,700
University of Dar es Salaam, Tanzania Toward the costs of continuing a science camp for high school students in Tanzania, spreading the benefits to a larger population, and laying the foundation for national and village science centers	\$70,000		

International African Institute, London, England Toward a seminar on Healing the Social Wounds of War, to be held in Namibia in November/December 1991	\$30,000	Research Foundation of the City University of New York, New York Toward travel expenses of participants in the Edward Bouchet International Conference on Physics and Technology, held at the University of	\$14,250
International Development Conference, Washington, D C Toward expenses of the 1991 International Development Conference, "From Cold War to Cooperation Dynamics of a New World Order," held in Washington, D C, January 23-25, 1991	\$10,000	Ghana in Accra, August 14-17, 1990 University of Lagos, Nigeria Toward the publication and distribution of a manuscript entitled "Science and Technology Education in Africa Case Studies of Seven Sub-Saharan Countries "	\$7,500
International Institute for Environment and Development (IIED), Washington, D C [1987 - \$325,000] To expand its program for helping developing countries organize national forest policy reviews To enable IIED to expand its program for helping developing countries organize national forest policy reviews	\$400,000	A Voice for Africa in the U S [1988 - \$1,200,000] To strengthen a voice for Africa in the United States, with particular focus on the U S foreign and development policy communities Bryn Mawr College, Pennsylvania For a study on teaching about Africa in U S	\$37,105
Makerere University, Kampala, Uganda [1986 - \$350,000] To support research and training initiatives at Makerere that further the goals of a science-based development strategy for Uganda		public schools The World Bank, Washington, D C Toward the operation and maintenance of an information system on donors' assistance to African education	\$40,000
For continued support of the research program of the Makerere Institute of Social Research To develop models for increasing efficiency in the teaching process through the use of technology	\$15,259 \$100,000	Toward the costs of a joint conference with the Rockefeller Foundation to develop a research program on "The Role of the Private Sector in Providing Health, Education, and Other Social Services in Developing Countries," held at the	\$38,600
Reflections on Development Program [1990 - \$680,000, 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		Bellagio Study and Conference Center, October 22-26, 1990 Yale University, New Haven, Connecticut [1990 - \$45,000] To establish an interdisciplinary and comparative program for United States and third-world scholars in agrarian studies (Joint appropriation with Aris and Humanities and Agricultural Sciences, for a total of \$200,000)	\$45,000
Kwame A. Ninsin, Legon, Ghana To publish a book entitled <u>The Informal Sector in</u> <u>Ghana's Political Econom</u> y	\$6,000		
Foundation-administered project Travel expenses associated with the conference held at the end of the fellowship period	\$55,000		
The Regents of the University of California, Los Angeles Toward a social science symposium, "Intergenerational Relations and Ecology," to be	\$29,000		

"Intergenerational Relations and Ecology," held in Western Kenya in August 1991

Advanced Training Fellowships

Agricultural Sciences

Cameroon

Martin Ngon à Yassi, molecular biology of plant viruses Appointed from University of Yaoundé, Cameroon Place of study Washington University, St Louis, Missouri

China

Deng Wanyin, plant molecular biology Appointed from Institute of Genetics, Academia Sinica, Beijing

Place of study University of Washington, Seattle

Fan Zaifeng, genetic engineering of rice for disease resistance Appointed from China National Rice Research Institute, Hangzhou Place of study University of East Anglia, Norwich, United Kingdom

Hu Tianhua, genetic engineering of rice Appointed from Beijing University Place of study Washington University, St Louis, Missouri

Li Liangcai, rice biotechnology Appointed from Institute of Genetics, Academia Sinica, Beijing Place of study Washington University, St Louis, Missouri

Li Xiu-Qing, rice biotechnology Appointed from Beijing University Place of study Purdue University, West Lafayette, Indiana

Liu Dong, plant molecular genetics Appointed from Shanghai Institute of Plant Physiology Place of study Purdue University, West Lafayette, Indiana

Wang Hong, molecular biology Appointed from Beijing Plant Cell Bioengineering Laboratory Place of study Yale University, New Haven, Connecticut

Wang Mingbo, molecular biology Appointed from Chinese Academy of Agricultural Sciences, Beijing Place of study University of Durham, United Kingdom

Xiao Jinua, plant breeding Appointed from Hunan Hybrid Rice Research Center, Changsha

Place of study Cornell University, Ithaca, New York

Ye Qiaolun, agricultural economics Appointed from Stanford University, California Place of study Stanford University

Zhong Heng, cellular biology Appointed from Institute of Botany, Academia Sinica, Beijing Place of study Michigan State University, East Lansing

Zou Jitao, rice biotechnology Appointed from Institute of Botany, Academia Sinica, Beijing Place of study Yale University, New Haven, Connecticut

Colombia

Alejandro Calderon-Urrea, plant science molecular genetics Appointed from International Center for Tropical Agriculture (CIAT), Cali Place of study Yale University, New Haven, Connecticut

India

C S Anuratha, rice biotechnology/molecular biology Appointed from University of Madras Place of study Kansas State University, Manhattan

Vijay Kumar Chowdhury, genetics Appointed from Haryana Agricultural University Place of study Purdue University, West Lafayette, Indiana

Gurpreet S Khehra, rice biotechnology Appointed from Punjab Agricultural University, Ludhiana Place of study University of Nottingham, United Kingdom

Yogesh Ramswarup Mawal, characterization of seed storage proteins of rice Appointed from National Chemical Laboratory, Pune

Appointed from National Chemical Laboratory, Pune Place of study Cornell University, Ithaca, New York

Kottaram K Narayanan, plant molecular biology Appointed from SPIC Science Foundation, Madras Place of study Stanford University, California

Jyoti Ranjan Rout, rice biotechnology Appointed from Central Rice Research Institute, Cuttack Place of study University of California, Davis

Ajanahalli R Sadananda, genetics Appointed from Indian Agricultural Research Institute, New Delhi

Place of study University of Georgia, Athens

Sarat Chandra Sahu, molecular biology/genetics Appointed from Central Rice Research Institute, Cuttack Place of study Washington State University, Pullman

Ramasamy Samiyappan, plant pathology Appointed from Tamil Nadu Agricultural University, Coimbatore Place of study Kansas State University, Manhattan

Kenya

Steven Were Omamo, agricultural economics Appointed from Egerton University, Njoro Place of study Stanford University, California

Korea

Choi Seong Ho, plant genetics and breeding Appointed from Rural Development Administration, Suweon Place of study Kansas State University, Manbattan

Malawı

Zakia R G Chalira, economics Appointed from Ministry of Finance, Llongwe Place of study University of Manchester, United Kingdom

Malı

Niama Nango Dembélé, agricultural economics. Appointed from Ministry of Finance and Commerce, Bamako Place of study Michigan State University, East Lansing

Mozambique

Admir Pancas Mahomed Bay, agronomy and seed physiology Appointed from Eduardo Mondlane University, Maputo Place of study Cornell University, Ithaca, New York

Nepal

Ganesh Dahal, biotechnology of rice viruses Appointed from Tribhuvan University, Kathmandu Place of study John Innes Institute, Norwich, United Kingdom

Nigeria

Christian A Fatokun, <u>Vigna</u> biotechnology. Appointed from University of Ibadan Place of study University of Minnesota, St Paul

Philippines

Rhodora Romero Aldemita, plant physiology Appointed from Philippine Rice Research Institute, Manila Place of study Purdue University, West Lafayette, Indiana

Reynaldo V Ebora, entomology Appointed from University of the Philippines, Los Baños Place of study Michigan State University, East Lansing

Desiree Menancio-Hautea, <u>Vigna</u> biotechnology Appointed from University of the Philippines, Laguna Place of study University of Minnesota, St Paul

Edilberto D Redona, plant breeding and genetics Appointed from Philippine Rice Research Institute, Manila Place of study University of California, Davis

Leocadio S Sebastian, plant breeding and genetics Appointed from Philippine Rice Research Institute, Manila Place of study Cornell University, Ithaca, New York

Thailand

Julapark Chunwongse, rice biotechnology Appointed from Kasetsart University, Bangkok Place of study Cornell University, Ithaca, New York

Patchara Verakalasa, molecular entomology Appointed from Chulalongkorn University, Bangkok Place of study Michigan State University, East Lansing

Watanalai Panbangred, rice biotechnology Appointed from Mahidol University, Bangkok Place of study Salk Institute, La Jolla, California

Uganda

Flavia Kabeere, seed technology Appointed from Ministry of Agriculture, Kampala Place of study Massey University, Palmerston North, New Zealand

United States

Michael Champoux, plant breeding Appointed from Kansas State University, Manbattan Place of study International Rice Research Institute, Los Baños

Zımbabwe

Julia Bonga, plant pathology. Appointed from University of Zimbabwe, Harare Place of study Ohio State University, Columbus

Zwenhamo Albert Chiteka, agronomy Appointed from Crop Breeding Institute, Harare Place of study University of Florida, Gainesville

Chrispen Sukume, agricultural economics Appointed from University of Zimbabwe, Harare Place of study Oregon State University, Corvallis

Health Sciences

Sazawal, Sunil, Clinical Epidemiology Appointed from All India Institute of Medical Sciences, New Delhi Place of Study McMaster University, Hamilton, Ontario, Canada and Johns Hopkins University, Baltimore, Maryland

Population Sciences

Argentina

Rubén Hugo Ponce, reproductive biology Appointed from National University of Córdoba Place of study University of Hawaii, Honolulu

Chile

Hugo Guillermo Sankan Cardenas, reproductive biology Appointed from Instituto Chileño de Medicina Reproductiva, Santiago Place of study University of Texas Health Science Center, Houston

Ivonne Rosa Szasz Pianta, demography Appointed from El Colegio de México, Mexico City Place of study United Nations Organization, Santiago

China

Gu Yanmin, population and development Appointed from Cornell University, Ithaca, New York Place of study Cornell University, Ithaca, New York

Guo Shenyang, demography Appointed from Population Research Institute, Fudan Place of study Brown University, Providence, Rhode Island He Zhigang, reproductive biology. Appointed from Nanjing Medical College Place of study University of Pennsylvania, Philadelphia

Liang Zhi-Guo, reproductive biology. Appointed from National Research Institute for Family Planning, Beijing Place of study The Population Council, New York, New York

Ma Rong, demography. Appointed from Beijing University Place of study Harvard University, Cambridge, Massachusetis

Qiu Yilan, demography. Appointed from People's University of China, Beijing Place of study University of Southern California, Los Angeles

Wang A1-Wei, reproductive biology. Appointed from Harvard Medical School, Boston, Massachusetts Place of study Harvard Medical School, Boston, Massachusetts

Wang Yan, reproductive health. Appointed from Beying Medical University Place of study Jobns Hopkins University, Baltimore, Maryland

Ye Wenzhen, demography. Appointed from Xiamen University Place of study Princeton University, New Jersey

Colombia

Arismendy Luis Fernando Botero, reproductive biology. Appointed from Javeriana University, Bogotá Place of study University of Maryland, Baltimore

France

Barbieri Magali, demography.

Appointed from University of California–Berkeley Place of study. Centre Français sur la Population et le Developpement, Paris

Ghana

Kofi Darkwa Benefo, demography. Appointed from University of Michigan, Ann Arbor Place of study University of North Carolina at Chapel Hill

India

Hira Lal Sharma, demography.

Appointed from Jawagarkak Nehru Krishi Vishwa Vidyalava, Jabalpur

Place of study University of Pennsylvania, Philadelphia

Sudha Shreeniwas, sociology. Appointed from University of Michigan, Ann Arbor Place of study University of Michigan

Kaushalendra Kumar Singh, social science statistics. Appointed from Banaras Hindu University, Varanasi Place of study • University of North Carolina at Chapel Hill

Shio Kumar Singh, reproductive biology. Appointed from Banaras Hindu University, Varanasi Place of study Landeskrankenanstalten, Salzburg, Austria Mahendra Kumar Thakur, reproductive biology. Appointed from Banaras Hindu University, Varanasi Place of study. The Population Council, New York, New York

Kenya

Evasius K. Bauni, demography. Appointed from Kenyatta University, Nairobi Place of study. London School of Hygiene and Tropical Medicine, United Kingdom

Mexico

Maria Irma Villalpando Fierro, reproductive biology. Appointed from Universidad Nacional Autónoma de México, Mexico City Place of study Royal Victoria Hospital, Montreal, Canada

New Zealand

Alexandra A. Brewis, anthropology Appointed from University of Arizona, Tucson Place of study University of Arizona

Nigeria

Bolaji Fapohunda, development sociology. Appointed from University of Ibadan Place of study Cornell University, Ithaca, New York

Adekunbi K. Omideyi, demography and social statistics. Appointed from Obafemi Awolowo University, Ile-Ife Place of study Cornell University, Ithaca, New York, and University of Pennsylvania, Philadelphia

Bankole Olusiji Oke, reproductive biology. Appointed from University of Ibadan Place of study Georgetown University Medical Center, Washington, D C

Philippines

Josefina Valera-Cabigon, demography. Appointed from University of the Philippines, Diliman, Quezon City Place of study Australian National University, Canberra

Srı Lanka

Weraduwage Indralal De Silva, demography. Appointed from University of Colombo, Sri Lanka Place of study Australian National University, Canberra

Sudan

Hassan Musa Yousif, demography. Appointed from University of Gezira, Wadmedani Place of study Brown University, Providence, Rhode Island

Thailand

Kamthorn Pruksananonda, reproductive biology. Appointed from Chulalongkorn University, Bangkok Place of study University of Pennsylvania, Philadelphia.

Biotechnology Career Fellowships

Agricultural Sciences

Braztl

Dulce Eleonora de Oliveira, Universidade Federal do Rio de Janeiro Molecular analysis of elicitor-induced defense responses in <u>Oryzae sativa</u>, at Riyksuniversiteit Gent, Belgium

Edilson Pawa, National Corn and Sorghum Research Center, Sete Lagoas Special types of corn for human nutrition, at the University of Arizona, Tucson (Renewal)

China

Yang Jinshui, Fudan University, Shanghai Gene-related pollen abortion of gametophytic sterility type in rice, at Stanford University, California

Costa Rica

Luis Leandro Rodriguez, Universidad Nacional, Heredia Use of newly developed molecular biology techniques in the study of vesicular stomatitis virus epizootiology, at the University of Wisconsin–Madison

India

Shanker L Kothari, University of Rajasthan, Jaipur Genetic transformation and manipulation of cytoplasmic male sterility in rice and other cereal crops using protoplast systems, at the University of Nottingham, United Kingdom

Baishnab Charan Tripathy, Jawaharlal Nehru University, New Delhi Protein transport into chloroplast, at the University of Wisconsin–Madison

Usha Vijayraghavan, Indian Institute of Science, Bangalore Molecular genetic analysis of flora morphogenesis in <u>Arabidopsis thaliana</u>, at the California Institute of Technology, Pasadena

Mexico

Carlos Arámburo de la Hoz, Universidad Nacional Autonoma de Mexico, D F Structure, biological activity, and control of chicken growth hormone molecular variations, at Rutgers University, New Brunsivick, New Jersey

Nigeria

Clement Kanyıdınma Ojeh, University of Ibadan Development of tests/reagents for the detection and characterization of group C rotaviruses, at Ohio Agricultural Research and Development Center, Ohio State University, Wooster

Gilbert Uwahmaka Okereke, Anambra State University of Technology, Enugu Molecular linkage of soybean nodulationcontrolling genes, at the University of Tennessee, Knoxville

John Osita Arinze Okoye, University of Nigeria, Nsukka Detection of infectious bursal disease viral isolates using polymerase chain reaction, at Auburn University, Alabama

Pakıstan

Khalida Sultana Ahmed, Quaid-i-Azam University, Islamabad Development of a pentose-utilizing yeast strain for the efficient conversion of agricultural biomass to fuel-grade alcohol, at Cornell University, Ithaca, New York

Thailand

Burachai Sonthayanon, Mahidol University, Bangkok Development of a high-density RFLP map in rice, at Cornell University, Ithaca, New York

Health Sciences

Argentina

Luis S Mayorga, Universidad Nacional de Cuyo, Mendoza Reconstitution of phagolysosome formation in cell-broken preparations and the effect of human intracellular parasites on the process, at Washington University, St Louis, Missouri

Marcos Leonardo Satz, University of Buenos Aires Molecular characterization of HLA class II alleles in Latin American individuals, at the National Institutes of Health, Bethesda, Maryland

Brazıl

Fernando de Castro Reinach, University of São Paulo Molecular genetic analysis of A-band assembly in striated muscle, at Cornell University Medical College, New York, New York

Yaria Maria Traub-Cseko, Fundaçao Oswaldo Cruz, Rio de Janeiro Characterization of cysteine proteinases in Leishmania, at Yale University, New Haven, Connecticut

Anibal Eugênio Vercesi, Universidade Estadual de Campinas Regulation of intracellular Ca² + homeostasis in <u>Trypanosoma</u> <u>cruzi</u>, at the University of Illinois, Urbana-Champaign

India

Shahid Jameel, International Centre for Genetic Engineering and Biotechnology, New Delbi Isolation, cloning, and sequencing of the genome of the aetiologic agent for enteric Non-A, Non-B Hepatitis, at the University of Colorado Health Sciences Center, Denver

Kamal K Kamboj, Central Drug Research Institute, Lucknow Use of recombinant DNA methodology and peptide-based immunoassays for the identification of variants of human malaria parasites and of epitopes recognized by the immune system of malaria-infected individuals, at New York University Medical Center, New York City

Nigeria

John Abiodun Elegbede, Ahmadu Bello University, Zaria Molecular basis of feedback regulation of mevalonate synthesis by plant isoprenoid products, at the University of Wisconsin-Madison

Turkey

Beks Kan, Marmara University, Istanbul Regulation of hemoglobin synthesis in normal and abnormal hematologic conditions, at Harvard University and Massachusetts Institute of Technology, Cambridge

Population Sciences

Egypt

Mostafa Kamel El-Awady, National Research Centre, Cairo Molecular defects in the human androgen receptor gene, and their linkage to genetic markers for early diagnosis and carrier detection of the androgen insensitivity syndrome, at the University of North Carolina at Chapel Hill

India

K Muniyappa, Indian Institute of Science, Bangalore Genetic approaches to the investigation of meiosis in mammals, at the University of Washington, Seattle

Social Science Research Fellowships

Agricultural Sciences

Alexander Amuah, an agricultural economist studying macroeconomic policies and fertilizer use in Ghana, while located at the International Food Policy Research Institute (IFPRI) project in Accra

Daniel Buckles, a sociologist studying the socio-economic dimensions of the adoption of soil conservation practices by matze farmers in Central America and Mexico, while located at the International Maize and Wheat Improvement Center (CIMMYT), El Batán, Mexico

John Corbett, a geographer participating in a project entitled "Upgrading and Utilization of a Wheat Database for the Developing World," while located at the International Maize and Wheat Improvement Center (CIMMYT), El Batán, Mexico

Adiel Mbabu, a rural sociologist participating in the training program of the International Service for National Agricultural Research (ISNAR) at the Kenya Agricultural Research Institute, Natrobi

Adhiambo Odaga, a geographer serving as Regional Social Scientist for West and Central Africa for the International Potato Center (CIP), while located in Yaoundé, Cameroon

Diane Russell, an anthropologist studying fallow management strategies of small-scale farmers in the humid forest zone of Cameroon, while located at the International Institute of Tropical Agriculture (IITA) project in Yaoundé

Population Sciences

Mark Hereward, a demographer studying behavioral, demographic, organizational, and attitudinal responses to the effects of enhanced family planning services in selected rural areas of China, while located at the State Family Planning Commission in Beijing

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.

American Association of Museums,	\$50,300
Washington, D.C.	
oward the costs of the "International Partnerships	
mong Museums" program.	
American Historical Association,	
Vashington, D.C.	\$900
oward the costs of an international meeting on	
vomen's history.	
oward the costs of publishing a new edition of its	\$50,000
<u>Guide to Historical Literature</u> .	
association of American Colleges, Inc.,	\$2,500
Vashington, D.C.	
or use by the Women's College Coalition in	
roducing and distributing the papers	
ommissioned for its 1990 conference. (Joint grant	
with Equal Opportunity, for a total of \$5,000.)	
California/International Arts Foundation,	\$60,000
os Angeles	
o enable Latin American participants to attend the	
990 Comité Internationale pour les Musées d'Art	
Aoderne annual conference.	
Cine Accion, Inc., San Francisco, California	\$30,000
'oward expenses for ''Encuentro Quinzeañero,'' a	
onference of Mexican and Latina/Chicana women	
lmmakers at the Colegio de la Frontera del Norte.	
Cultural Survival, Inc.,	\$85,000
Cambridge, Massachusetts	-
oward the costs of establishing the Center for	
Cultural Survival.	
orest History Society, Durham, North Carolina	\$24,000
oward the costs of a conference on Latin American	
prest and environmental history.	

History of Science Society,	\$30,000
Worcester, Massachusetts	φ20,000
To enable Latin American scholars to attend its	
1991 international conference.	
Hunter College, City University of New York,	\$50,000
New York	
Toward a pilot project for a university-based	
satellite television program service.	
The second secon	¢20.000
International Arts Relations, Inc. (INTAR),	\$30,000
New York, New York	
Toward curatorial outreach and educational	
programs, including the commissioning of bilingual	
catalogues to accompany exhibitions of work by	
minority artists.	
International Network of Resource Information	\$7,000
Centers (INRIC), Plainfield, New Hampshire	φ1,000
Toward the costs of third-world participation in the	
INRIC conference on "Economics as a Tool for a	
Sustainable Society."	
Sustainable Society.	
Micere Mugo, Harare, Zimbabwe	\$11,000
Toward the costs of a research and writing project	
on African literature, education, and culture. (Joint	
grant with Special Programming, for a total of	
\$21,000.)	
National Archives Trust Fund Board,	\$15,000
Washington, D.C.	
Toward the collection and publication of the papers	
of Margaret Sanger. (Joint grant with Population	
Sciences, for a total of \$30,000.)	
New School for Social Research,	\$63,400
New York, New York	φ 02, 400
Toward the costs of a national conference and	
publication of commissioned papers associated with	
the exhibition "Home: A Place in the World."	
the exhibition fibme; A flace in the world.	
New York University, New York	\$38,750
For a series of conferences on urban development	<i>\</i>
entitled "The Forum on the City." (Joint grant with	
Equal Opportunity, for a total of \$77,500.)	
again opportunity, jor a total of arr, 200.)	

Obor, Inc , Clinton, Connecticut Toward the costs of a conference at the Bellagio Study and Conference Center, on developing autonomous publishing in Africa	\$20,000	University of Iowa, Iowa City •Toward the costs of a resident fellowships program in its Women's Studies Program University of Maryland Foundation, College Park
Readers International, Inc., Columbia, Louisiana Toward the costs of a library marketing campaign for its translations of contemporary world literature	\$30,000	Toward the costs of a resident fellowships program at its Department of Spanish and Portuguese and its Research Center for Arts and Humanities University of Oklahoma, Norman
Resident Fellowships in the Humanities [1990 - \$2,600,000, in addition to remaining funds from prior year appropriations] To support humanistic scholarship intended to illuminate and assess international and		Toward the costs of a resident fellowships program in its History of Science Department Washington University, St Louis, Missouri Toward the costs of a resident fellowships program
intercultural issues and to strengthen institutional programs where such scholarship is sustained		at its Center for the Study of Islamic Societies and Civilizations
Sites Selected in 1990		Related Research Activities
City College of the City University of New York, New York Toward the costs of a resident fellowships program at the Simon H Rifkind Center for the Humanities	\$245,000	Center for Community Studies, Inc , New York, New York Toward the costs of planning the development of an organization devoted to research, documentation, and interpretation of the experience of Chinese in
Indiana University, Bloomington Toward the costs of a resident fellowships program at the Research Institute for Inner Asian Studies	\$244,000	<i>the Americas</i> Cornell University, Ithaca, New York
Northwestern University, Evanston, Illinois Toward the costs of a resident fellowships program at its Institute for Advanced Study and Research in	\$245,000	For use by its program on Ethics and Public Life toward the costs of a study entitled "Ethical Guidelines for Global Bargains"
the African Humanities		Hunter College, City University of New York, New York
State University of New York at Buffalo Toward the costs of a resident fellowships program in its departments of American Studies and African American Studies	\$245,000	Toward the costs of participation by third world scholars and artists in the Fourth International Interdisciplinary Congress on Women, hosted by its Women's Studies Program, a site for resident fellowships
University of California at Los Angeles Toward the costs of a resident fellowships program at its Chicano Studies Research Center	\$245,000	Newberry Library, Chicago, Illinois For use by the D'Arcy McNickle Center for the History of the Native American toward the costs of
University of Chicago, Illinois Toward the costs of a resident fellowships program in its Program on South Asian Civilizations	\$245,000	scriptwriting and project development of a film series on Native American tales set in North America before 1492
Sites Receiving Renewed Support		University of California at Santa Cruz For use by its Center for Cultural Studies for a
University of Arizona, Tucson Toward the costs of a resident fellowships program at its Southwest Institute for Research on Women	\$155,000	conference on "Cultural Politics and Contemporary Social Movements"
University of California at Berkeley Toward the costs of a resident fellowships program at its Center for Chinese Studies	\$40,600	
University of Hawaii at Manoa, Honolulu Toward the costs of a resident fellowships program at its Center for Pacific Islands Studies	\$134,000	

\$134,500

\$142,200

\$155,000

\$155,000

\$50,000

\$26,000

\$45,200

\$75,000

\$19,775

University of Houston, Texas For use by its Arte Publico Press toward the costs of conferences on restoring the Hispanic literary heritage of the United States	\$50,000
University of Maryland Foundation, College Park For use by the Institute for Philosophy and Public Policy in conducting a research project entitled "Environmental Ethics Survey and Assessment"	\$32,000
Foundation-administered projects Program support expenses	\$70,000
Exploration by the Foundation of how to further the development of humanistic perspectives on environmental concerns	\$50,000
Smithsonian Institution, Washington, D C [1990 - \$300,000] To enable Latin American scholars and museum professionals to develop a version of the U S exhibition "Tropical Rainforests A Disappearing Treasure" for audiences in their countries	\$300,000
Spoleto Festival U S A , Charleston, South Carolina Toward its exhibition of newly commissioned visual arts installations created for venues throughout Charleston	\$60,000
Understanding Cultures Through Museums [1990 - \$700,000, 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	
Afro-American Historical and Cultural Museum, Inc., Philadelphia, Pennsylvania Toward the costs of the exhibition "Contemporary African Artists Changing Traditions"	\$5,000
Asian American Arts Centre, Inc , New York, New York Toward the costs of research for an exhibition of artistic production by Asian-American artists in the US from 1945 to 1965	\$30,000
Bronx Museum of the Arts, New York Toward research and development of an exhibition entitled "Latin American Conceptual Arts"	\$35,000
Brooklyn Museum, New York Toward the costs of the ''Carıbbean Festıval Arts'' exhibition	\$25,000
Center for African Art, New York, New York Toward the costs of an exhibition entitled "Africa Explores Twentieth Century African Art"	\$100,000

Children's Museum, Boston, Massachusetts Toward the costs of its Multicultural Professional Development Project	\$50,000
Crocker Art Museum Association, Sacramento, California For implementation of programs on aspects of Mexican art and culture	\$5,000
EXIT Art, Inc , New York, New York Toward the costs of "Parallel History," a transcultural, multimedia project	\$50,000
Institute of International Education, New York, New York <i>Toward the costs of an international conference on</i> <i>exhibitions, in Venice, Italy</i>	\$65,000
Museum of Photographic Arts, San Diego, California Toward the costs of a traveling exhibition entitled "Revelaciones The Photographs of Manuél Alvarez Bravo"	\$25,000
New School for Social Research, New York, New Yoik Toward the costs of a national conference and publication of commissioned papers associated with the exhibition "Home A Place in the World"	\$41,600
Polarities, Inc , Brookline, Massachusetts Toward the costs of a major exhibition of contemporary Cuban art entitled "The Nearest Edge of the World"	\$50,000
Social and Public Art Resource Center, Venice, California <i>Toward the costs of international activities of the</i> "World Wall" exhibition	\$25,000
Studio Museum in Harlem, New York Toward the costs of presenting an exhibition entitled "Five Artists from Contemporary Africa" at the 1990 Venice Biennale	\$100,000
To cover unanticipated expenses associated with the "Decade Show"	\$20,000
University of Texas at Austin Toward the costs of an exhibition entitled "The School of the South The Torres-Garcia Workshop (1934-1962)"	\$50,000
Western Behavioral Sciences Institute, La Jolla, California Toward the costs of a teleconference on "Cultural Theory Applied to the Global Environment"	\$100,000

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Yale University, New Haven, Connecticut To establish an interdisciplinary and comparative program for US and third-world scholars in agrarian studies (Joint grant with Special Programming and Agricultural Sciences, for a total	\$156,200			
of \$251,200) Increasing Artistic Experimentation Across Cultures				
Almeida Theatre Company, London, England Toward the participation of international artists in the creation of the play "Desire"	\$10,000			
American Federation of Arts, Inc , New York, New York Toward the costs of a traveling video exhibition entitled "Short Films from Latin America"	\$50,000			
American Place Theater, New York, New York Toward artists' fees and production expenses for a theater piece, ''Ground People''	\$25,000			
American Repertory Theatre Company, Inc , Cambridge, Massachusetts Toward the costs of two theatrical collaborations with international artists	\$75,000			
Arts of Mexico [1990 • \$400,000] To support educational and performing arts programs developed in bost cities to complement the exhibition entitled "Mexico Splendors of Thirty Centuries"				
Ameticas Society, Inc., New York, New York Toward the cosis of its literature program focusing on Mexican avant-garde literature and women's identity in Mexican literature	\$15,000			
Amigos del Museo del Barrio, New York, New York Toward its exhibition "Through the Path of Echoes Contemporary Art in Mexico"	\$10,000			
City College of the City University of New York Toward the costs of a Latin American book fair	\$15,000			
Government of Mexico, Mexico City Toward expenses relating to the musical presentations for a festival of Baroque, Renaissance and contemporary Mexican music at Merkin Concert Hall and the Great Hall of the Cooper Union	\$10,000			

Hostos Community College Advisory Council,	\$20,000
Inc , Bronx, New York Toward the costs of a series of cultural programs on Mexican art and music	
Instituto Cultural Mexicano, San Antonio, Texas Toward exhibition expenses to mount "The History of Mexican Textiles"	\$10,000
International Center of Photography, New York, New York Toward the mounting of its exhibition "Between Worlds Contemporary Mexican Photography"	\$40,000
Metropolitan Museum of Art, New York, New York Toward the costs of a series of scholarly symposia in San Antonio, Los Angeles, and New York to complement the exhibition "Mexico Splendors of Thirty Centuries"	\$95,000
New York Shakespeare Festival, New York Toward the costs of presenting the Laboratorio de Teatro Indigena's production of ''Romeo y Julieta ''	\$25,000
Texas Committee for the Humanities, Austin Toward a cooperative outreach program with the San Antonio Public Library Foundation	\$25,000
Universidad Nacional Autonoma de México, Permanent Extension School, San Antonio, Texas Toward its lecture series contextualizing the art objects in the exhibition	\$10,000
University of Texas at San Antonio To enable the College of Fine Arts and Humanities to develop and present scholarly symposia on the arts of the Southwest and Mexico from ancient times to the present	\$10,000
Foundation-administered project Development of community based programs related to the Arts of Mexico exhibition in New York, San Antonio, and Los Angeles	\$39,000
The Association of American Cultures, Washington, D C Toward the costs of planning a pilot program in leadership development for community-based arts organizations	\$50,000
Boston Dance Umbrella, Cambridge, Massachusetts Toward the costs of residency activities for its Native American Festival	\$25,000
Brooklyn Academy of Music, New York For the development and production of a music/ theater piece entitled "Endangered Species"	\$100,000
Toward presentation costs of the Court Performers as part of the Festival of Indonesia	\$50,000

Toward the recording and broadcast over public radio of a concert series entitled "Folkmasters Traditional Music in America "	\$50,000
Center for Puppetry Arts, Inc , Atlanta, Georgia Toward the costs of its "Puppetry of Indonesia" project	\$15,000
Centro Cultural Ciudad de Buenos Aires, Argentina For a collaborative residency and exchange program for computer music composers	\$19,600
Community Television of Southern California, Los Angeles To enable the National Latino Communications Center to do research and development for a national public television series entitled "The Story of the Chicano Civil Rights Movement"	\$70,000
Contemporary Arts Center, Cincinnati, Ohio For program expansion, including exhibitions, artist residencies, and related educational activities	\$50,000
Dance Critics Association, Los Angeles, California In support of its 1990 conference, ''Looking Out Critical Imperatives in World Dance''	\$10,000
Dance Theatre Workshop, New York, New York [1990 \$275,000, in addition to remaining funds from prior year appropriations] To continue support for its Suitcase Fund, a program of reciprocal touring by artists and performing arts companies from the United States and abroad	\$275,000
ETV Endowment of South Carolina, Inc., Spartanburg Toward administrative costs and travel assistance for United States delegates attending the 1990 INPUT conference	\$15,000
Festival Fund [1990 - \$1,000,000] To encourage festival activities in the United States that broaden intercultural or international exchange	
Alternate ROOTS, Inc , Atlanta, Georgia Toward its 1990 performance festival of works by	\$28,000

American Dance Festival, Durham, North Carolina For continuation of its international programs for choreographers	\$100,000
East Tennessee Foundation, Knoxville Toward international commissions and collaborations for the Knoxville World Festival	\$65,000
Friends of the Arts, Inc , San Francisco, California Toward the expenses of planning and conducting Festival 2000's Forum on the American Aesthetic	\$65,000
Jacob's Pillow Dance Festival, Inc , Lee, Massachusetts Toward the costs of its international and intercultural programs	\$90,000
Los Angeles Festival, California For international artists' expenses and conference activities	\$100,000
Movement Theatre International, Philadelphia, Pennsylvania Toward the international performance activities of its 1990 festival	\$60,000
National Black Arts Festival, Atlanta, Georgia In support of its 1990 international activities	\$75,000
New York Shakespeare Festival, New York Toward the costs of its Festival Latino	\$250,000
Pregones Touring Puerto Rican Theater Collection, Inc , Bronx, New York <i>Toward the costs of the 1990 TENAZ Festival</i>	\$50,000
Teatro Avante, M1am1, Flor1da For international participation in its Festival de Teatro H1spano	\$50,000
Theater for the New City Foundation, Inc , New York, New York For its First Annual Eco Festival in New York	\$10,000
Film News Now Foundation, Inc, New York, New York Toward the costs of transcribing and editing the proceedings of the "Show the Right Thing" conference	\$15,000
Foundation for Independent Video and Film, Inc , New York, New York To complete work on its African Directory and to research and publish its Asia Directory	\$45,000
Fund for Reconciliation and Development, Philadelphia, Pennsylvania Toward the touring costs of the Classical Dance Company of Cambodia on the East Coast	\$30,000
Grantmakers in the Arits, Chicago, Illinois Toward its 1990 activities	\$3,000

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Independent Committee on Arts Policy, New York, New York <i>Toward its 1990 activities.</i>	\$25,000
Institute of International Education, New York, New York [1990 - \$350,000]	\$350,000
To enable the participation of American artists in	
international visual arts exhibitions and	
performing arts festivals through the Fund for U.S. Artists at International Festivals and Exhibitions, administered by Arts International.	
Toward 1990 activities of its Arts International Program.	\$50,000
Intercultural Film/Video Fellowships	
[1990 - \$875,000, in addition to remaining funds from prior year appropriations]	
To provide creative time, travel, and research and	
production support for competitively selected film	
and video artists who are working in the documentary and media art forms to explore and	
interpret issues of cultural diversity, both internationally and within the United States.	
Selected in 1990:	
Ralph Arlyck, Poughkeepsie, New York	\$35,000
Zeinabu Irene Davis, Yellow Springs, Ohio	\$35,000
Joel DeMott and Jeff Kreines, Millbrook, Alabama	\$35,000
Juan Downey, New York, New York	\$35,000
Su Freidrich, Brooklyn, New York	\$35,000
Vanalyne Green, Chicago, Illinois	\$35,000
Louis Hock, San Diego, California	\$35,000
Peter Hutten, Annandale-on-Hudson, New York	\$35,000
Bill Jersey, Berkeley, California	\$35,000
Joan Jonas, New York, New York	\$35,000
Zydnia Nazario, Brooklyn, New York	\$35,000
Warren Sonbert, San Francisco, California	\$35,000
Janice Tanaka, Los Angeles, California	\$35,000
Keiko Tsuno, New York, New York	\$35,000
Bill Viola, Long Beach, California	\$35,000
	\$35,000

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Stage II Awards To former fellowship recipients to aid in the completion and promotion of projects.

St. Clair Bourne, New York, New York	\$7,500
Tony Buba, Braddock, Pennsylvania	\$7,500 \$7,500
Charles Burnett, Los Angeles, California	\$50,000
Christine Choy, New York, New York	\$32,000
Julie Dash, Atlanta, Georgia	\$45,000
Ana Maria Garcia, Caparra Heights, Puerto Rico	\$ 4 5,000 \$15,000
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Haile Gerima, Washington, D.C.	\$50,000 \$25,000
Jill Godmilow, New York, New York	\$25,000 \$45,000
DeeDee Halleck, La Jolla, California	\$45,000
Gary Hill, Seattle, Washington	\$31,000
Paul Kos, San Francisco, California	\$7,500
John Marshall, Watertown, Massachusetts	\$40,000
Victor Masayesva, Hoteville, Arizona	\$7,500
Trinh Minh-ha, Berkeley, California	\$30,000
Enrique Oliver, Boston, Massachusetts	\$40,000
Lourdes Portillo, San Francisco, California	\$22,000
Yvonne Rainer, New York, New York	\$45,000
Marlon T. Riggs, Berkeley, California	\$40,000
Leslie Thornton, Brooklyn, New York	\$30,000
Billy Woodberry, Los Angeles, California	\$35,000
Related Activities and Other Grants	
Electronic Arts Intermix, New York, New York	\$15,000
Foundation-administered project Program support expenses.	\$30,000
Japanese American Cultural and Community Center, Los Angeles, California <i>Toward a multicultural performance series entitled</i>	\$7,500
"Celebrate California."	
Mary Luft and Company, Inc., Miami, Florida Toward its music and dance festival, "New from the USA," in Brazil.	\$5,000
Mabou Mines Development Foundation, Inc., New York, New York Toward the 1990 production of "Lear" and a retrospective of four plays in the Mabou Mines	\$50,000
repertoire. Media Resource Associates, Washington, D.C. [1990 - \$200,000] To provide research and early development support for a comprehensive documentary series about Native American histories and cultures for public television.	\$200,000

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Meet the Composer, Inc , New York, New York [1990 - \$150,000, in addition to remaining funds from prior year appropriations] To support a national commissioning program that places jazz composers in project-based residencies with symphony orchestras, chamber music ensembles, dance companies, theater groups, and opera/music theater companies	\$150,000	District Curators, Washington, D C Toward production and presention of the "Multikulti World Suite," composed by Don Cherry and performed by master improvisational musicians from throughout the world El Puerto Rican Playwrights/Actors Workshop, New York, New York	\$25,000 \$20,000
Multi-Arts Production Fund [1990 - \$750,000, in addition to remaining funds from prior year appropriations] To continue the Foundation's formalized process for evaluating and supporting proposals in the		Toward selected productions of the Nuyorican Theater Festival 1990-91 En Garde Arts, New York, New York Toward commissioning playwright Charles Mee, Jr to create a new site-specific, music-theater piece	\$10,000
performing and supporting proposals in the performing arts that reflect the boldest and most creative new work in intercultural and/or international representation		entitled "Strange Country" Ethnic Folk Arts Center, New York, New York	\$20,000
Asian Heritage Council, Cupertino, California Toward commissioning and production of "The Guru," an original collaborative full-length concert by choreographers Chitresh Das and Mythili Kumar	\$15,000	Toward co-production of two days of free, outdoor, multi-ethnic music and dance performances, in conjunction with the opening of the Success Garden Learning Center for Horticulture and the Urban Environment in Harlem	
Balumore Opera, Maryland Toward publicly attended workshops of "Amistad," a new opera composed by Anthony Davis with an original libretto by Thulani Davis	\$35,000	House Foundation for the Arts, New York, New York Toward the New York City production of "Atlas," a full-length opera by Meredith Monk	\$40,000
Brava ¹ for Women in the Arts, San Francisco, California Toward production of the world premiere of "Heroes and Saints," written by Cherrie Moraga	\$25,000	Houston Grand Opera, Texas Toward production of a new dance opera, "The Mother of Three Sons," composed by jazz violinist/ composer Leroy Jenkins, with a libretto by poet Ann T Greene, and choreography by Bill T Jones	\$25,000
Crossroads Theatre Company, New Brunswick, New Jersey Toward the final development phase of "The Mother Project," the first full-scale production of the Sangoma Project, a collaborative group of African-American women artists	\$35,000	International Arts Relations, Inc. (INTAR), New York, New York Toward the collaborative translation by Eduardo Machado and Pedro Perez of "Pericones" (Anthems) by Argentinian Mauricio Kartun, and toward a production directed by Jorge Cachiero	\$11,000
Cultural Odyssey, San Francisco, California Toward creation and production of "Raining Down Stars More Stories of the Diaspora," a collaborative multi-disciplinary performance piece by playwright	\$15,000	Junebug Productions, Austin, Texas Toward creation and production of two works by John O'Neal	\$25,000
Ed Bullins, composer/performance piece by playwright Ed Bullins, composer/performer Idris Ackamoor, jazz composer Don Moye, and performance artist Rhodessa Jones		Ko Thi Dance Company, Milwaukee, Wisconsin Toward the poetic opera "Song of Sundiata," a collaboration by choreographer Ferne Yangyeitte Caulker, orchestrator Dumah Saafir, and poet	\$20,000
Dance Brigade, Oakland, California Toward production of "Goodbye Columbus," a repertory concert of 10 dance pieces created by five choreographers Suzanne Nakamura, Sarah Crowell, Gina Pacaldo, Maria Amalia Pendones, and Nina Fichter	\$20,000	Reginald Finlayson Kulintang Arts, San Francisco, California Toward creation and workshop production of "La China Poblana," a collaboratiwe, multimedia performance piece by visual/performance artist Guadalupe Garcia, poet/performance artist Genny Lim, and dancer/choreographer Alleluia Panis	\$20,000

Arts and Humanities, continued

La Compania de Teatro de Albuquerque,	\$10,000	San Jose Taiko, San Jose, California	\$20,000
New Mexico	φ10,000	Toward development and performance of a	42 0,000
Toward the development of "Matachines" by Rudolfo Anaya, and for related developmental		collaborative production by San Jose Taiko, choreographer Margaret Wingrove, musicians	
projects		Russell Hisashi Baba and Jeanne Aiko Mercer, and	
		taiko artist Kenny Endo	
Life On The Water, San Francisco, California <i>Toward commissioning and production of "La</i>	\$20,000	Under One Roof, New York, New York	\$20,000
Ultima Carpa," a performance collaboration created		Toward production of "The Mermaid Wakes," a	<i>ψ</i> 20,000
by El Taller and Grupo Zero Cultural from Mexico		new music-theatre work by composer/director	
Mandeleo Institute, Oakland, California	\$25,000	Elizabeth Swados and poet Lora Berg	
Toward commissioning and production of a concert		V1v1an Beaumont Theater, New York, New York	\$40,000
of original collaborative music and dance pieces by folk artists Malonga Casquelourd and Jose Lorenzo		Toward the world premiere of "Mule Bone" by	
jon uniss muongu Cusquesouru unu jose Dorenzo		Langston Hughes and Zora Neale Hurston, directed by Michael Schultz with original music by Taj	
Pan Asian Repertory Theatre,	\$25,000	Mabal	
New York, New York Toward development and production of "Cambodia		Weller Art Conten Mintennelle Mintennet	£20.000
Agonistes," a multimedia theater piece, written by		Walker Art Center, Minneapolis, Minnesota Toward co-commissioning and presentation of Kei	\$20,000
Ernest Abuba, composed by Louis Stewart, and directed by Tisa Chang		Takes to choreograph and perform "24 Hours of	
utrettea by Itsa Chang		Light" with composers David Moss and Yukio Tsuji, and visual artist Ichi Ikeda	
Pentacle - Foundation for Independent Artists,	\$40,000	13431, and visual arrist ten 1800	
Inc., New York, New York Toward the work of Etko and Koma to develop and		The Women's Project and Productions,	\$22,500
produce "Land," a two-part dance work, in		New York, New York Toward co-commissioning, with the Southeast	
collaboration with composer Robert Mirabal (Taos Pueblo)		Playwrights Project, Southern playwrights Jo	
(1403 Fuebio)		Carson, Pearl Cleage, and Valetta Anderson, and toward development workshops in Atlanta and	
Performance Space 122, New York, New York	\$20,000	New York	
Toward creation and development of a performance work, "No Trace of the Blonde," a collaboration by			
director Ellen Sebastian, playwright Holly Hughes,		Music-Theatre Group, Inc , New York, New York Toward videotaping of its production of "Juan	\$3,000
and visual designer Janie Geiser		Darien," a music/theater work by Julie Taymor and	
Ping Chong, New York, New York	\$35,000	Elliot Goldenthal	
Toward the American premiere of "Deshima," a		National Jazz Service Organization,	\$30,000
poetic documentary, multi-disciplinary performance work		Washington, D C	φ20,000
a or k		Toward the costs of its educational and public	
Redwood Cultural Work, Oakland, California	\$22,500	information activities	
Toward creation and production of "Todo Mezclado," a concert-length, multimedia		National Public Radio, Washington, D C	\$130,000
performance work inspired by Cuban poet Nicolas		[1990 - \$130,000]	
Guillen, performed by Conjunio Cespedes and by Altazor		To assist its plan for redeveloping its cultural programming offerings and for a new series,	
11114207		"Making the Music"	
The Road Company, Johnson City, Tennessee	\$18,000		
Toward collaboration with leaders of the African- American community of Johnson City, Tennessee,		National Video Resources, New York, New York [1990 - \$1,000,000, in addition to remaining funds	
to establish an ensemble of African American		from prior year appropriations]	
theater artists		To increase public access through videocassette to outstanding cultural, educational, and documentary	
San Diego Repertory Theatre, California	\$30,000	film and video materials	
Toward the world premiere of "The Life and Life of Bumpy Johnson," a jazz musical/bopera conceived			
by Amiri Baraka with a score by Max Roach,			
directed by George Ferencz			

Arts and Humanities, continued

American Film Institute, Los Angeles, California To publish a book that identifies opportunities for independent film and video distribution through the home video market.	\$8,135	Los Angeles Contemporary Exhibitions, Inc., California <i>Toward a grants program for artists in southern</i> California and Hawaii.	\$19,000
Media for Development International, Columbia, Maryland To develop a broadcast strategy model for socially relevant docudramas with a follow-up distribution.	\$5,500	New England Foundation for the Arts, Cambridge, Massachusetts Toward a grants program in collaboration with Inquilinos Boricuas En Accion, Refugee Arts Group, and other organizations throughout New	\$17,000
Modern Language Association of America, New York, New York To assess video use by foreign-language and English faculty in U.S. colleges and universities.	\$32,020	England, for artists in the states of Maine, Massachusetts, Rhode Island, New Hampshire, Connecticut, and Vermont.	
Resolution Inc., San Francisco, California In support of its project to create new audiences and markets for an ongoing stream of African films on videocassette.	\$62,000	New Langton Arts, San Francisco, California Toward a grants program in collaboration with the Multi-Cultural Arts Consortium and Artist Trust for artists in northern California, Alaska, Oregon, and Washington.	\$20,000
Foundation for Independent Video and Film, Inc., New York, New York To design, print, and disseminate the "Independent Producer's Guide to Film and Video Distributors" and to provide individualized consultation services to producers about their distribution options.	\$25,000	Painted Bride Art Center, Philadelphia, Pennsylvania Toward a grants program for artists in the states of Pennsylvania, New Jersey, Virginia, West Virginia, Maryland, Delaware, and the District of Columbia.	\$20,000
Foundation-administered project Program support expenses.	\$437,380	Puerto Rico Community Foundation, Inc., Hato Rey <i>Toward a grants program for artists in Puerto Rico.</i>	\$10,000
Network of Cultural Centers of Color, New York, New York For direct costs of its 1991 production and touring.	\$50,000	Pyramid Arts Center, Rochester, New York Toward a grants program for artists in New York state.	\$20,000
New Forms: Regional Initiative [1990 - \$250,000, in addition to remaining funds from prior year appropriations] To assist emerging American performing artists to develop new work and reach new audiences		Randolph Street Gallery, Inc., Chicago, Illinois Toward a grants program in collaboration with the National African-American Museum and Cultural Center, for artists in the states of Illinois, Indiana, Obio, Michigan, and Missouri.	\$20,000
through arts organizations in their own parts of the country. Each grantee below also receives a matching sum fr		Southeast Community Cultural Center, Inc., Atlanta, Georgia <i>Toward a grants program for artists in the states of</i> <i>Coursis, Kentuchy, Townseed, North Caroling, and</i>	\$15,000
National Endowment for the Arts.	on the	Georgia, Kentucky, Tennessee, North Carolina, and South Carolina.	
Contemporary Arts Center, New Orleans, Louisiana Toward a grants program for artists in the states of Louisiana, Mississippi, Alabama, and Arkansas.	\$19,000	State Dance Association of Florida, Inc., Miami Beach, Florida Toward a grants program in collaboration with the Miami Dade Community College for artists in the state of Florida.	\$5,000
DiverseWorks, Houston, Texas Toward a grants program in collaboration with Mexic-Arte for artists in the states of Texas, Arizona, New Mexico, and Oklahoma.	\$20,000	Foundation-administered project Program support expenses.	\$30,000
Helena Film Society, Inc., Montana Toward a grants program in collaboration with the Colorado Dance Festival for artists in the states of Colorado, Idaho, Montana, Nevada, Wyoming, and Utah	\$16,000		
Intermedia Arts of Minnesota, Inc., Minneapolis Toward a grants program for artists in the states of Minnesota, Iowa, Wisconsin, Nebraska, Kansas, and North and South Dakota.	\$17,000		

New Radio and Performing Arts, Inc , Brooklyn, New York Toward the continuation of a radio series featuring work by artists of color and international artists	\$35,000
New York University, New York Toward the costs of an international conference on interculturalism in performance	\$51,500
Santa Fe Chamber Music Festival, New Mexico In support of its "Music of the Americas" program	\$50,000
Spanish Theatre Repertory Company, Ltd , New York, New York <i>Toward the third year of Repertorio Español's Latin</i> <i>American Directors Project</i>	\$50,000
Stanford University, Palo Alto, California For a collaborative residency and exchange program at its Center for Computer Research in Music and Acoustics	\$26,500
Sundance Institute Latin American Filmmakers Exchange Program, Utah Toward the production of a feature documentary film on the global environment, to be undertaken in conjunction with the Filmmakers' Union of the USSR	\$25,000
Toward the costs of its 1990 activities	\$60,000
Telluride Institute, Inc., Colorado Toward its 1990 Composer-to-Composer Festival	\$20,000
Twin Cities Public Television, Inc (KTCA/TV), Minneapolis-St Paul, Minnesota [1990 - \$200,000, in addition to remaining funds from prior year appropriations] To support continued production of its national public television series "Alive from Off Center," a summer showcase of new and innovative work in dance, theater, music, and performance and video art	\$200,000
University of California, San Diego For a collaborative residency and exchange program for computer music composers at its Center for Music Experiment	\$48,500
Visual Arts Research and Resource Center Relating to the Caribbean, Inc, New York, New York Toward publication and distribution costs of <u>Cultural Diversity</u> <u>The Myth and the Reality</u> , the collected papers from its 1989 international conference	\$25,000

World Music Productions, Brooklyn, New York Toward the costs of its nationally distributed, public radio series on contemporary African music, AFROPOP Worldwide "	\$50,000
Yale University, New Haven, Connecticut To engage a staff member to administer the community outreach program for the Broadway production of "The Piano Lesson," by August Wilson	\$7,500
Other	<u></u>
Dance Theatre of Harlem, New York [1990 - \$200,000]	\$200,000
To help it regain a solid financial footing in preparation for launching a long-term stabilization effort	•
The following grants were approved under former guidelines	
Meet the Composer, Inc , New York, New York [1990 \$250,000, in addition to remaining funds from prior year appropriations] To help Meet the Composer carry out the final round of its national program for composer residencies with symphony orchestras	\$250,000
OPERA America, Washington, D C In support of its program, "Opera for the Eighties and Beyond "	\$100,000

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		To plan and implement the service-delivery systems for the demonstration and develop a research component for the evaluation of child outcomes.	\$580,200
Brandeis University, Boston, Massachusetts Toward the costs of (1) compiling an archive on the Foundation's program for combatting persistent	\$100,000	Toward the costs of management and evaluation of the demonstration.	\$900,000
poverty in six cities through community planning and action projects, (2) providing the projects with techniques for self-assessment, and (3) developing activities to synthesize the six-city initiative.		Foundation-administered project Honoraria and travel expenses for the demonstration's advisory panel members.	\$12,600
Martha Burt, New York, New York Toward the costs of research on factors affecting the bomeless.	\$6,760	Children Now, Oakland, California Toward its general operating expenses.	\$75,000
Center for Community Change, Washington, D.C. Toward the costs of expanding its public policy work on resource issues for community-based development.	\$100,000	Children's Defense Fund, Washington, D.C. [1990 - \$1,000,000] To assist its efforts to improve public policies affecting children.	\$1,000,000
Center on Budget and Policy Priorities, Washington, D.C. [1990 - \$150,000, in addition to remaining funds from prior year appropriations] To support the Center's policy analysis on federal, state and local government budgets and safety-net	\$150,000	Community Planning and Action [1990 - \$2,375,000, in addition to remaining funds from prior year appropriations] To continue support for the operation in selected cities of planning and action projects dedicated to reducing persistent poverty.	
programs for low-income families and individuals.	\$97,300	Case Western Reserve University, Cleveland, Ohio In support of projects aimed at reducing persistent poverty in the Cleveland area.	\$300,000
Washington, D.C. Toward the costs of a study entitled "National Service for Out-of-School Youth."	φ <i>γ</i> γγ,500	Greater Washington Research Center, Washington, D.C. In support of projects aimed at reducing persistent	\$400,000
Child Care Plus [1990 - \$3,600,000, in addition to remaining funds from prior year appropriations] To support a multiyear demonstration and evaluation of two alternative child care support systems for low-income families.		poverty in the Greater Washington area. Partnership for Hope, San Antonio, Texas In support of the development and operation of projects dedicated to reducing persistent poverty in the San Antonio area.	\$395,258
Corporation for the Advancement of Policy Evaluation, Princeton, New Jersey Toward the costs of initial implementation	\$44,775	Piton Foundation, Denver, Colorado In support of projects aimed at reducing persistent poverty in the Denver area.	\$350,000
activities of the demonstration. Toward planning costs and early operation of the demonstration.	\$70,000	San Antonio Cares, Texas In support of projects aimed at reducing persistent poverty in the San Antonio area.	\$7,500

Equal Opportunity, continued

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Urban Strategies Council, Oakland, California In support of projects aimed at reducing persistent poverty in the Oakland area	\$396,425
Foundation-administered projects Technical assistance for projects aimed at reducing persistent poverty in six cities	\$100,000
Toward the costs of site-based research	\$285,000
Development Training Institute, Baltimore, Maryland To complete an analysis of a database of the workforce and career pattern of people in the community development field	\$12,000
Educational Broadcasting Corporation, New York, New York To help meet production and promotion costs for its two-bour public television documentary, "Childbood in America"	\$300,000
Emory University, Atlanta, Georgia [1990 - \$55,000] To provide bridging support for a Public Health Summer Fellowship Program for Minority Students (Joint appropriation with Health Sciences, for a total of \$110,000)	\$55,000
Enterprise Foundation, Columbia, Maryland [1990 - \$150,000, in addition to remaining funds from prior year appropriations] To continue support for its effort to develop nonprofit systems for improving housing and increasing human and community services in low-income neighborhoods	\$150,000
Foundation-administered projects Design of a multi-site demonstration program to identify significant amounts of increased investment funds for community development	\$38,525
Exploratory efforts by the Foundation to identify and consolidate information on promising local strategies and policies addressing persistent poverty	\$100,000
Toward the costs of a conference entitled "Our Youth and Their Future "	\$23,470
Toward the costs of a research project to predict the African-American population to the year 2010	\$33,500
Harvard University, Cambridge, Massachusetts Toward the costs of a study entitled "Entrepreneur and Community Organization The Development and Execution of Organizational Strategy in Community Development Corporations"	\$75,000
Human Capital [1989 - \$1,525,000]	

To develop a cobort of young, primarily minority scholars concerned with the study of public policy as it affects persistent poverty and the underclass

Social Science Research Council, New York, New York	\$801,480
To continue support for the SSRC's fellowship and training program aimed at developing a cohort of younger scholars concerned with the study of	
persistent poverty and the underclass	
Woodrow Wilson National Fellowship Foundation, Princeton, New Jersey	\$300,000
To enlarge the supply of minority scholars trained for the field of public policy management	
Illuminating Intergenerational Perspectives [1988 - \$440,000]	
To further understanding of how intergenerational approaches in human services can foster better developmental outcomes for low-income parents and their children	
American Enterprise Institute for Public Policy Research, Washington, D C Partial support for a series of six policy seminars on the needs of low-income parents and their children,	\$28,000
specifically addressing issues of intergenerational programs within the governmental policy framework for the 1990s	
Local Initiatives Support Corporation (LISC), New York, New York	\$275,000
[1990 - \$275,000, in addition to remaining funds from prior year appropriations] To pay a portion of LISC's core management expenses	
[1990 - \$183,650, in addition to remaining funds from prior year appropriations]	\$183,650
To increase its support of locally based, community development corporations	
Manpower Demonstration Research Corporation, New York, New York	\$100,000
Toward the costs of follow-up research of the JOBSTART Demonstration Project	
Minority Female Single Parent Program (MFSP), [1990 - \$700,000, in addition to remaining funds	
from prior year appropriations] To complete evaluation research of the Minority Female Single Parent Program and dissemination of the research findings	
Center for Employment Training, San Jose, California To provide support for a dissemination project in	\$100,000
response to interest generated by the MFSP evaluation	
Foundation-administered project To support the evaluation, monitoring, and	\$750,000
dissemination of the MFSP by Mathematica Policy Research, Inc , and other contractors	

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Morehouse College, Atlanta, Georgia Toward the costs of a series of meetings of researchers/policy activists concerned with the most pressing issues confronting African-American males	\$100,000	Toward the costs of collaborating with the Center for Strategic and International Studies on a study entitled "National Service for Out-of-School Youth"	\$86,500
National Community Development Initiative [1990 \$500,000] To catalyze, through a funder's consortium called the National Community Development Initiative,	<u>.</u>	Research Foundation of the City University of New York (CUNY), New York Toward the costs of a study entitled ''Latinos, Applied Social Research, and Public Policy''	\$77,500
strategic growth in the resources available for local community development corporation activities in selected cities		Toward the costs of a study entitled "Migration and Poverty The Puerto Rican Experience"	\$52,000
National Congress for Community Economic Development, Washington, D C <i>Toward the costs of a service-oriented economic</i> <i>development initiative</i> National Council of La Raza, Washington, D C	\$35,000 \$260,000	Social Science Research Council, New York, New York [1990 \$658,200, in addition to remaining funds from prior year appropriations] To continue support for the SSRC's multiyear program to mobilize the academic community for interdisciplinary research on the underclass	\$658,200
[1990 - \$260,000, in addition to remaining funds from prior year appropriations] To continue support for its policy analysis and dissemination activities on issues of persistent poverty among Latinos	¥2.00,000	University of California–Los Angeles Toward the costs of formulating a program for technical assistance to community development corporations in Los Angeles	\$25,000
National Puerto Rican Coalition, Inc , Washington, D C Toward the costs of developing a long-term advocacy strategy to address the persistence of poverty in the US Puerto Rican community	\$20,400	University of Chicago, Illinois Toward the costs of a study entitled "Piercing the Puzzle Discontinuities in the School-Work Transition of Puerto Rican and Other Minority Youth"	\$47,100
New York Community Trust, New York Toward the costs of a Substance Abuse Study Group Project	\$25,000	University of Michigan, Ann Arbor For use by its Law School toward the costs of a program in legal assistance for urban communities	\$50,000
New York University, New York For a series of conferences on urban development entitled "The Forum on the City" (Joint grant with Arts and Humanities, for a total of \$77,500)	\$38,750	Urban Institute, Washington, D C [1990 - \$500,000, in addition to remaining funds from prior year appropriations] To continue support for its policy research on the urban underclass and dissemination of	\$500,000
Population Reference Bureau, Washington, D C Toward the costs of a study on the concept of a rural underclass	\$40,000	the findings to policymakers, community leaders, and the media	
Program to Explore Long-Term Implications of Changing Gender Roles [1988 - \$800,000, in addition to remaining funds from prior year appropriations] To further understanding of the relationship between changing gender roles and new patterns of		Women's Legal Defense Fund, Washington, D C [1990 - \$200,000, in addition to remaining funds from prior year appropriations] To continue assistance efforts to ensure economic security for women and children through child support	\$200,000
family life and work in postindustrial societies		Protecting Basic Rights	
Foundation-administered project Toward the costs of completing the review of the competitive grants program, "The Implications of Changing Gender Roles in Post-Industrial Societies," and developing materials for dissemination, including consultant costs	\$50,000	American Civil Liberties Union Foundation, New York, New York [1990 - \$1,000,000] To provide stable support for the ACLU Foundation's class-action litigation activities in the	\$1,000,000
Public/Private Ventures, Inc., Philadelphia, Pennsylvania [1990 • \$300,000] To initiate a five-year evaluation of urban youth corps programs	\$300,000	field of voting rights 1990 Annua	lReport 97

	\$2,500	Native American Rights Fund, Boulder, Colorado	\$300,000
Association of American Colleges, Inc , Washington, D C	φ2,200	[1990 - \$300,000, in addition to remaining funds	\$200,00
For use by the Women's College Coalition		from prior year appropriations]	
in producing and distributing the papers		To enable the Fund to continue its advocacy,	
commissioned for its 1990 conference		litigation, and technical assistance activities	
(Joint grant with Arts and Humanities, for a total		to protect the civil and human rights of	
of \$5,000)		American Indians	
Association of Black Foundation Executives,	\$25,000	People for the American Way, Washington, D C	··· ··· ····
Washington, D C		Toward the costs of a project to increase citizen	\$50,000
Toward its general operating expenses		participation in self-government and strengthen democratic institutions	
Center for Community Change, Washington, D C	\$1,000	Toward the costs of a preliminary review of existing	\$9,430
Toward the costs of its publication program		public opinion data and social marketing research on civil rights	<i>~~,</i> ,,,,,
Civil Rights Conferencing Toward the costs of a conference to review	\$17,250		
Opportunity Perestroika The Future of Civil Rights	Ψ	Phelps-Stokes Fund, New York, New York	\$15,000
and Anti-Poverty Advocacy"		In support of the New York State Judicial Commission on Minorities	
To stimulate activities which affect attitudes and perceptions that lead toward a new American	\$82,750	Poverty Advocates Research Council, New York,	
consensus on race relations		New York	•
		[1990 - \$250,000]	
Fair Employment Council of Greater Washington,	\$40,000	To support a newly formed federation of civil rights	
Washington, D C		and poverty advocacy organizations, designed to	
Toward start-up costs		facilitate more effective collaboration among the	
- <u> </u>		member groups and a closer linkage of policy	
Hispanics in Philanthropy, San Francisco, California	\$20,000	analysis with action on inner-city minority poverty	
Toward its general operating expenses		NAACP Legal Defense and Educational Fund, New York, New York	\$125,000
Institute for Puerto Rican Policy, New York, New York	\$25,000	In support of the Poverty Advocates Research Council	
Toward the costs of supporting Latino initiatives in			
the 1991 redestricting process		Program to Explore Long-Term Implications of Changing Cander Poles	
		Changing Gender Roles [1988 - \$300,000, in addition to remaining funds	
Mexican American Legal Defense and	\$100,000	[1988 - \$900,000, in addition to remaining Junus from prior year appropriations]	
Educational Fund, Los Angeles, California		To further understanding of the relationship	
Toward the costs of providing community		between changing gender roles and new patterns of	
education, technical assistance, and litigation support to the Hispanic community, as well as		family life and work in postindustrial societies	
ensuring the Hispanic community's involvement in		Foundation administration to an entry	den 000
the 1991 redistricting process		Foundation-administered project	\$50,000
		For the costs of completing the review of the program and developing materials for	
National Coalition on Black Voter Participation, Washington, D C	\$50,000	dissemination, including consultant costs	
Toward the costs of its 1990 Census		Robert Moeller, University of California, Irvine	\$30,000
Awareness Project		For the costs of a study entitled "Women and the	420,000
		State in the Economic Miracle Social Policy in	
National Council of La Raza, Washington, D.C. [1990 • \$375,000, in addition to remaining funds		Postwar West Germany"	
from prior year appropriations and an earlier		Southern Regional Council, Atlanta, Georgia	
1990 grant for \$75,000] To continue support for its Policy Analysis Center	\$375,000	Toward the costs of projects designed to enhance minority voting participation	\$50,000
		Toward the costs of preparing a report on the challenges and needs of redistricting in the 1990s	\$15,000
		Toward the costs of providing technical assistance on redistricting to minority communities in the	\$54,700

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Urban Institute, Washington, D C [1990 - \$296,600] To support a test for employment discrimination on \$296,600 the basis of race in the metropolitan areas of Chicago and Washington, D C

School Reform Grants

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.

Alliance for Education in Global and International Studies (AEGIS), New York, New York	\$25,000	Foundation-administered project Evaluation activities related to the CHART network	\$62,000
Toward its project, "Quality and Balance in Education About the World"		Hispanic Culture Foundation, Albuquerque, New Mexico Toward the costs of the planning phase and initial	\$25,000
Artist Space, New York, New York	\$5,000	activities of its program, "New Mexico Currents"	1 ,
Toward the production of a program catalogue and sponsorship of a panel discussion for the exhibition, "Teaching TV"		For the development of a statewide multicultural education program in New Mexico	\$150,000
Collaboratives for Humanities and Arts Teaching (CHART) [1990 - \$2,000,000, in addition to remaining funds from prior year appropriations]		International Education Consortium, St. Louis, Missouri Toward the continuation of a teacher-training program to strengthen international education in the St. Louis secondary schools	\$150,000
To continue building and to centralize a national network of collaborative projects that feature international and multicultural education as priorities for school improvement and demonstrate the centrality of the teacher as the agent of educational reform		Los Angeles Educational Partnership, California Toward institutionalization of its HUMANITAS Academy, which fosters professional renewal of teachers through interdisciplinary activity in the arts and humanities	\$225,000
American Forum, Inc., New York, New York Toward continuation of a teacher-training program in international education in the New York City public schools	\$50,000	Network for Secondary Schools, New York, New York To organize and coordinate the announcement of the New Mexico CHART initiatives	\$10,000
Bryn Mawr College, Pennsylvania For the administration, evaluation, and development of programming activities of the CHART network	\$588,800	PATHS/PRISM The Philadelphia Partnership for Education, Pennsylvania Toward the administrative and evaluation costs of the CHART network	\$8,000
Toward the costs of two conferences on curricular change in the public schools	\$50,000	For continuation of its project to revise the world history curriculum in the School District of Philadelphia	\$175,000
Community Foundation of Greater Washington, Washington, D C For continuation of the development of the Superintendent's Academy for Humanities and Arts teaching	\$100,000	Pittsburgh Public School District, Pennsylvania For continuation of the Arts PROPEL Dissemination Project	\$150,000
Connecticut Humanities Council, Middletown Toward the establishment of the Connecticut Humanities Alliance and expanded activities in urban school systems	\$60,000	San Francisco Education Fund, California For continuation of the Humanities, Education, Research, and Learning Development (HERALD) project in the San Francisco School District	\$150,000

South Carolina Committee for the Humanities, Columbia For its rural education project in the arts and	\$175,000
humanities	
University of Arkansas at Little Rock For use by its Arkansas International Center in continuing an interdisciplinary teacher-training program in global education	\$150,000
Committee for Economic Development, New York, New York For support of its new Program in Education and Child Development	\$50,000
Council on Foundations, Washington, D C In support of its Precollegiate Education Group	\$3,500
Earth Day 1990, Stanford, California Toward production and distribution of the Earth Day 1990 Lesson Plan and Home Survey.	\$50,000
Education Commission of the States, Denver, Colorado For preparation, convening, and follow-up costs for a meeting of key leaders of education re-structuring movements	\$57,000
Educational Consortium of Central Los Angeles, California Toward the costs of planning and organizing an innovative program of in-school and out-of-school instruction and support for disadvantaged students in the Los Angeles public schools	\$25,000
Educational Testing Service, Princeton, New Jersey [1990 - \$230,000, in addition to remaining funds from prior year appropriations] To conclude support for the research phase of the collaboration between Harvard's Project Zero and Educational Testing Service (ETS) on the development of new approaches to instruction and testing in the arts and humanities	\$230,000
Facilitating the "Comerization" of Public Schools [1990 - \$1,500,000]	
the school improvement approach developed by ames Comer and to incorporate his methodology	
To expand the number of public schools utilizing the school improvement approach developed by James Comer and to incorporate his methodology into the curriculum of teacher-training institutions Central State University, Wilberforce, Ohio For the Graduate School of Education to develop courses derivative of Dr James P Comer's work for inclusion in curriculum of their MA program for urban elementary and secondary school teachers	\$75,000

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Foundation-administered projects Toward the costs of producing and distributing "how-to" videos	\$550,000
Howard University, Washington, D C For implementation of the Comer process in the elementary schools of the District of Columbia	\$71,800
New Haven Public Schools, Connecticut In support of the Consortium for Urban Education, New Haven	\$50,000
Southern Connecticut State University, New Haven, Connecticut In support of the Consortium for Urban Education, New Haven	\$100,000
Southern University at New Orleans, Louisiana To develop a plan for disseminating and implementing the Comer process in the New Orleans public schools	\$34,000
Yale University, New Haven, Connecticut For use by the Yale University Child Study Center to expand utilization of the School Development Program principles	\$410,000
Foundation-administered projects Development of a formal proposal for production of a television documentary on James P Comer and the Comer School Development Program	\$12,000
Development and implementation of "The Juice Factory," a program to prepare at-risk urban youth for the emerging multicultural world of the 1990s and beyond	\$53,700
For consultant fees in connection with the Foundation's efforts to bring the philosophy and work of James Comer to the attention of education policymakers and opinion leaders	\$100,000
For the costs of videotaping and distributing the proceedings of the fourth Foundation-sponsored Institute of the Community Planning and Action Projects	\$40,000
Foundation of the Dramatists Guild, Inc , New York, New York To establish its first National Teacher Training Institute	\$25,000
Harvard University, Cambridge, Massachusetts [1990 - \$305,000, in addition to remaining funds from prior year appropriations] To conclude support for the research phase of the collaboration between Harvard's Project Zero and the Educational Testing Service (ETS) on the development of new approaches to instruction and testing in the arts and humanities	\$305,000
In support of a feasibility study for a National Center for Appropriate Assessment, to be conducted by the Harvard University Graduate School of Education	\$66,250

Institute for Educational Leadership, Inc., Washington, D.C. For use by a consortium comprising the Institute, the McKenzie Group, and the Joint Center for Political and Economic Studies in planning a project to prepare the next generation of school	\$46,150	Southern Education Foundation, Inc., Atlanta, Georgia Toward the support of the study and design of a summer academy for educators from urban schools serving at-risk students.	\$65,000
superintendents. National Council of La Raza, Washington, D.C. To plan a national-level policy analysis project focusing on education reform.	\$25,000	Texas Interfaith Education Fund, Austin To enable it and the Texas Industrial Areas Foundation to implement a school reform mobilization effort for predominantly Hispanic schools in Texas.	\$75,000
New Haven Public Schools, Connecticut To establish a summer training institute for School Planning and Management teams as a model for national replication.	\$40,000	Training Education Leaders to Improve At-Risk Schools To continue support for pilot summer academies that train principals and other building-level education leaders to meet the challenge of	
Original Ballets Foundation, Inc., New York, \$2: New York Toward implementation of the New Ballet School/		managing schools that serve at-risk children. (Grants will be made in subsequent years.)	
Professional Performing Arts School partnership and a related research project.		University of California–Los Angeles For use by the Wight Art Gallery for the production and dissemination of curriculum units related to the	\$25,000
Public Education Association, New York, New York In support of its school design program,	\$10,000	exhibition "Chicano Art: Resistance and Affirmation."	
'New Schools for New York."		University of New Mexico, Albuquerque For a conference at which its Bureau of Educational	\$1,140
San Diego City Schools, California Toward the development of a demonstration leadership academy for the school district.	\$25,000	Planning and Development briefed leaders from national laboratories funded by the U.S. Department of Energy on new research and techniques in mathematics and science pedagogy.	

International Security Grants

The Foundation supports work to limit the proliferation of nuclear and other weapons of mass destruction, to encourage developing-world participation in international security deliberations, and to broaden the international security agenda to include the environment and other global issues.

Center for Foreign Policy Development, Providence, Rhode Island Toward the costs of a conference, "Cuba Between the Superpowers."	\$30,000	Massach Cambri Toward on mini weapon
Centers for Disease Control, Atlanta, Georgia Toward support of a collaborative research project between the United States and the Soviet Union to sequence strains of the variola virus. (Joint grant with Health Sciences, for a total of \$60,000.)	\$30,000	Mediato Santa M Toward
Institut Français des Relations Internationales, Paris, France Toward the costs of a multinational research and networking program on weapons proliferation.	\$100,000	

Massachusetts Institute of Technology, \$29,400 Cambridge Toward the costs of a research and dialogue project on minimizing the risk of the use of nuclear weapons in the Middle East.

Mediators Foundation, Inc., Santa Monica, California *Toward the costs of the PARTNERS Project*.

Monterey Institute of International Studies, California Toward the costs of initiating a computer database on the ballistic missile trade.	\$30,000	University of Southampton, England [1990–\$300,000] To support the work of the Programme for Promoting Nuclear Non-Proliferation (PPNN) in strengthening the nuclear non-proliferation regime,	\$300,000
New York University, New York [1990–\$450,150] To enable its Center for War, Peace, and the	\$450,150	with particular emphasis on third-world participation.	
News Media to complete the planning of a new global security organization, Armswatch, while maintaining regular Center activities.	φ 1 / 0, 1 / 0	University of Wisconsin–Madison [1990–\$130,000] To support the work of the Wisconsin Project on	\$130,000
Toward the design and planning of a new global security organization.	\$100,000	Nuclear Arms Control on limiting the export of the technology required to develop nuclear weapons and ballistic missiles.	
Parliamentarians for Global Action, New York, New York Toward the costs of the project, "Moving the Test Ban to Center Stage."	\$30,000	Wilton Park, West Sussex, England Toward the costs of a conference, "New Threats to Global Security Proliferation of Nuclear, Chemical, and Biological Weapons," to be held at its Wiston House Conference Centre.	\$17,315
Princeton University, New Jersey For a summer school on science and world affairs. (Joint grant with Global Environment, for a total of \$50,000.)	\$25,000		

Other Interests and Initiatives Grants

The Foundation supports a very small number of exceptionally meritorious projects that do not fall within established program guidelines, using its special interests and explorations fund, and provides support for the Rockefeller Archives Center. The Foundation also operates the Bellagio Study and Conference Center, on northern Italy's Lake Como, for international meetings and residencies for scholars and artists.

Special Interests and Explorations		African-American Institute, New York, New York Toward expenses associated with establishing an international working committee for the creation	\$35,000
The Africa Fund, New York, New York Toward general support of the production of the	\$100,000	of a South African Development Bank.	
public television program "South Africa Now."		American Academy of Arts and Sciences, Cambridge, Massachusetts	\$25,000
Africa News Service, Inc., Durham, North Carolina [1990 - \$500,000] To contribute toward its continuation and expansion.	\$500,000	Toward the costs of developing a three-year project on the redeployment of government-funded research and development resources from the military sector to strengthen the civilian technology base.	
Africa Resources Trust, Epsom, Surrey, United Kingdom Toward the costs of its Southern African NGO Resource Centre.	\$50,000	American Civil Liberties Union Foundation, New York, New York [1990 - \$300,000] To assist its Reproductive Freedom Project to prepare and conduct litigation.	\$300,000

American Indian College Fund, New York, New York <i>Toward its 1990-91 administrative costs</i>	\$100,000
Towara its 1990-91 daministrative costs	
The Cleveland Foundation, Cleveland, Ohio For use by the National Community AIDS Partnership toward support of expansion of the Partnership into more communities in 1991 by way of education or service programs	\$100,000
Cold Comfort Farm Trust, Harare, Zimbabwe Toward support of a research unit providing economic and political analyses of events in South Africa for policymakers in the six frontline states Angola, Botswana, Mozambique, Tanzania, Zambia, and Zimbabwe	\$40,000
Conflict Management Project, Cambridge, Massachusetts Toward the costs of conducting a prenegotiation workshop with members of the African National Congress, held in Lusaka, Zambia, March 1990	\$24,000
Council on Foundations, Washington, D C Toward its general operating expenses during 1990	\$24,700
Editorial Projects in Education, Inc., Washington, D.C. [1990 - \$250,000, in addition to remaining funds from prior year appropriations] To belp assure continuation of <u>Teacher Magazine</u>	\$250,000
Educational Broadcasting Corporation (WNET/Thirteen), New York, New York Toward the costs of televising the art exhibit, Facing History The Black Image in American Art, 1710-1940 "	\$13,300
Toward the production of an hour-long conversation with Nelson Mandela for public television	\$10,000
Esquel Group Foundation, Bethesda, Maryland To fund a study of the feasibility of creating an independent, national foundation in Ecuador	\$280,000
Foundation-administered projects Joint Rockefeller Foundation/MacArthur Foundation Task Force on the Future of the US Defense Budget	\$50,000
Rockefeller Foundation Matching Gift Program	\$75,000
Friends of the Institute for a Democratic Alternative for South Africa, New York, New York [1990 \$150,000] To support the work of the Institute for a Democratic Alternative for South Africa to encourage the evolution of a democratic, nonracial	\$150,000

Fund for Free Expression, Washington, D C Toward the costs of a research project leading to the publication of a book tentatively entitled "Israel/ Palestine - Beyond the Second Republic Conflict Management in a Bi-national Society"	\$23,000
Management in a Di-national Society	
Dr C Jakes Gerwel, University of the Western Cape, Bellville, Cape Province, South Africa In recognition of his efforts on behalf of just and democratic change in South Africa	\$50,000
The Grameen Trust, Dhaka, Bangladesh [1990 - \$500,000]	\$500,000
To support its efforts to promote the replication in third-world countries of the Grameen Bank's micro-credit and social development program	
Helsinki Citizens Assembly, Prague, Czechoslovakia Toward the costs of its founding congress, held in Prague in October 1990, and a portion of its research	\$100,000
Independent Sector, Washington, D C Toward general support	\$7,400
In support of John Gardner's studies in leadership	\$25,000
Institute of International Relations, Maputo, Mozambique Toward support of an international conference entitled "Rethinking Strategies for Mozambique and Southern Africa," held in May 1990 at the Institute	\$30,000
National Academy of Public Administration, Washington, D C Toward the costs of a secretariat to coordinate activities for implementing the recommendations of the National Commission on the Public Service (the Volcker Commission)	\$15,000
National Charities Information Bureau, New York, New York Toward its 1990-91 operating budget	\$5,000
National Council of Educational Opportunity Associations, Washington, D C Toward the costs of a Student Leadership Conference, beld in Washington, D C, June 16-21, 1990, marking the 25th anniversary of the inception of two federally sponsored educational opportunity programs, Talent Search and Upward Bound	\$25,000

National Opinion Research Center, Chicago, Illinois For the continuation of the collection of reliable data on sexual behavior	\$75,000	Twentieth Century Fund, New York, New York Toward development of a multi foundation- sponsored initiative to test new programs for combatting drug abuse	\$100,000	
National Public Radio, Washington, D C [1990 - \$200,000, in addition to remaining funds from prior year appropriations] To continue support for its news and information programming	\$200,000	University of Chicago, Illinois For use by the University of Chicago Press toward the publishing costs of <u>Managers of Science</u> <u>Foundations and the Natural</u> Sciences <u>1900-1950</u>	\$5,500	
New Departures, Inc , Cambridge, Massachusetts Toward support for <u>Reconstruction</u> , a quarterly magazine	\$50,000	University of Colorado at Denver For use in planning, in partnership with consortiums in the Soviet Union and China, the establishment of an International School of Public Affairs within its Graduate School of Public Affairs	\$100,000	
New York Community Trust, New York, New York Toward the support of Funders Concerned About AIDS education and outreach activities	\$10,000	University of the Witwatersrand, Johannesburg, South Africa Toward a feasibility study for a proposed graduate program in public policy and development	\$50,000	
New York Regional Association of Grantmakers, New York, New York <i>Toward general support</i>	\$7,125	administration at the university WNYC Foundation, New York, New York For use by the WNYC Communications Group	\$100,000	
Overseas Development Council, Washington, D C [1990 - \$1,500,000]	\$1,500,000	toward support of a research and development plan for Teen City		
To assist the Council, in the post-Cold War era of the 1990s, to refocus its program of providing policy-makers and the public with timely analysis of US interests and responsibilities in		Women and Foundations/Corporate Philanthropy, New York, New York <i>Toward its</i> 1990 91 general operating expenses	\$25,000	
developing countries		The World Congress on Philanthropy Educational	\$15,000	
Overseas Development Network, Cambridge, Massachusetts To make linkages between overseas and domestic development issues, diversify the Network to	\$48,000	Foundation, Alexandria, Virginia Toward costs of assisting developing-country representatives in attending the next World Congress on Philantbropy being held in June 1991		
ensure more participation from students of different social, economic, and cultural backgrounds, and bring more international perspectives and ideas into exchange with US students		Rockefeller Foundation Archives		
Partnership for Democracy, Washington, D C Toward support of The Charles Bannerman Memorial Fellowship Program	\$15,000	Rockefeller University, New York, New York [1990 \$466,660] For the operation of the Foundation's archives at the Rockefeller Archive Center	\$466,660	
People for the American Way, Washington, D C Toward a four phase anti censorship program	\$75,000			
Phelps Stokes Fund, New York, New York Toward its project, the Committee for South African Development	\$100,000			

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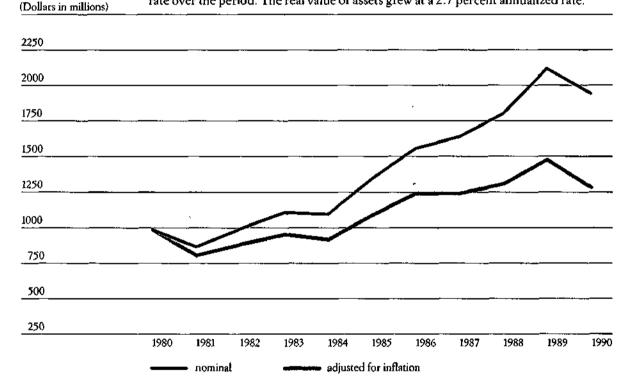
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Financial Report

The 1980's was a rewarding period for investors having a long-term perspective and a moderate tolerance for bearing risk. High rates of return enabled the Foundation to spend \$649 million over the ten-year period ended December 31, 1990, and still increase assets by \$956 million over the period to end the decade at \$1,945 million. The following exhibits describe the Foundation's investment program in greater detail.

Asset Growth

The market value of the Foundation's assets totaled \$1,945 million at December 31, 1990, a decrease of 7.9 percent from the 1990 year end total of \$2,111 million. The graph below shows growth in asset values over the past 10 years. The top line shows total assets in nominal dollars; the bottom line shows assets in real dollars, adjusted by the personal consumption deflator. Nominal assets grew at a 7.2 percent annualized rate over the period. The real value of assets grew at a 2.7 percent annualized rate.



Asset Mix

Diversification among asset classes is an important element of the Foundation's investment program. The program is diversified among six asset classes in the proportions indicated in the following table. Within each asset class, further diversification is achieved by assignment of portfolios to several investment managers and or strategies. The investment program is structured with a long-term perspective on risk and return and, therefore, in order to maintain the Foundation's grant making capacity, the equity allocation is normally maintained above 50 percent.

Note: The investment categorizations below reflect the asset mix based upon the functional intent underlying the Foundation's investment strategy and thus, differ from those presented in the accompanying financial statements.

Asset Mix (continued)

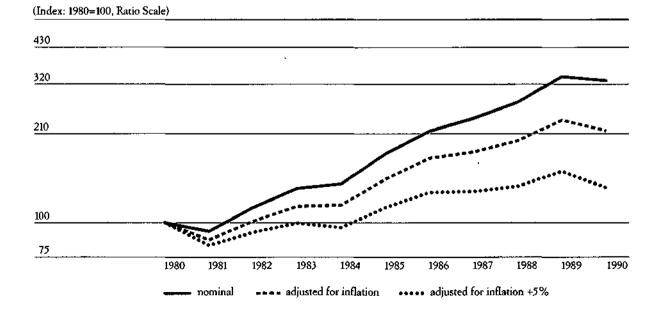
	December 31, 1990		December 31, 1989	
	\$ Millions	Percent	\$ Millions	Percent
U.S. Equities	\$ 990	50.9 %	\$1,101	52.1%
Foreign Equities	276	14.2	320	15.2
Bonds	270	13.9	245	11.6
Cash	159	8.2	219	10.4
Real Estate	165	8.5	141	6.7
Venture Capital	85	4.3	85	4.0
	\$1,945	100%	\$2,111	100%

Investment Returns

The Foundation's investment program is designed to maintain the real value of assets and still support spending in excess of the 5 percent minimum distribution requirement imposed by the IRS. While returns needed to meet this objective will not be earned every year, the Foundation expects that an asset mix similar to that shown in the previous table will support our spending policy over time.

In addition to holding a diversified portfolio, the Foundation uses a number of techniques to increase investment returns. These include tactical asset allocation (under or overweighting asset classes based on near-term valuation judgements), the use of misvalued futures, and the retention of external managers who attempt to outperform broad equity or bond indices.

The total return on assets for 1990 was -3.3 percent. Cumulative returns for the past ten years are shown by the top line in the graph below. The average annual compound rate of return for the ten year period was 12.5 percent. Adjusted for inflation, the compound annual real rate of return was 7.9 percent.



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Investment Managers The Foundation had four equity managers at the end of 1990: Wells Fargo Investment Advisors, Rosenberg Institutional Equity Management, Geewax Terker, and Concord Capital. Bonds are managed by three firms: Wells Fargo, Rosenberg Capital, and Security Capital. Foreign equities are managed by Wells Fargo, State Street Bank, and Emerging Markets Management. In order to limit security selection risk, the Foundation has allocated a disproportionate share of its equity and fixed income accounts to "passive" strategies, through the utilization of arbitrage techniques. The Foundation has investments in ten real estate partnerships and 20 venture capital partnerships. Cash reserves are managed internally. Northern Trust is custodian for domestic assets. Spending Spending (grants plus general administration expenses) totaled \$93.1 million in 1990, a 12.4 percent increase over 1989's \$82.8 million. As the graph below shows, real and nominal spending have increased sharply since 1985. The growth in spending is directly related to the substantial increase in asset values registered over the period. 100 75 50 25 0 1985 1986 1987 1988 1989 1990 1980 1981 1982 1983 1984 nominal adjusted for inflation

Expenditures by Categories	Expenditure	es by categories f	for the three year	rs 1988-1990 are	shown in the tab	ole below.
		1990		1 9 89		1988
	\$ Millions	Percent	\$ Millions	Percent	\$ Millions	Percent
Grants and Operations:						
Agricultural Sciences	\$13.6	14.2%	\$14.3	17.0%	\$ 9.8	13.3%
Arts & Humanities	14.2	14.8	13.6	16.1	12.4	16.8
Equal Opportunity	13.9	14.5	13.5	16.0	12.5	17.0
Health Sciences	14.3	14.9	10.5	12.4	10.6	14.4
Population Sciences	10.9	11.4	8.6	10.2	7.1	9.6
Global Environment	2.7	2.8	0.4	0.5	_	-
Special Programming	4.7	4.9	4.0	4.7	4.3	5.8
School Reform	2.7	2.8	1.6	1.9	-	_
International Security	0.9	0.9	0.5	0.6	-	_
Special Interests & Explorations	3.1	3.2	4.5	5.3	4.2	5.7
Education for Development	-	-	-	-	0.1	0.1
International Relations	0.1	0.1	0.3	0.4	1.0	1.4
Bellagio Center & Archives	2.8	2.9	2.9	3.4	2.6	3.5
Warren Weaver Fellows	0.8	0.8	0.3	0.4	-	-
Subtotal	84.7	88.2	75.0	88.9	64.6	87.6
General Administration	8.3	8.6	7.8	9.2	6.4	8.7
Major Renovation and Equipment	-	-	0.1	0.1	0.3	0.4
Federal excíse tax paid for previous year	3.1	3.2	1.5	1.8	2.4	3.3
Total	\$96.1	100.0%	\$84.4	100.0%	\$73.7	100.0%

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Report of Independent Auditors

The Board of Trustees The Rockefeller Foundation

We have audited the accompanying statements of assets, obligations and principal fund of The Rockefeller Foundation as of December 31, 1990 and 1989, 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, 1990 and 1989, 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 22, 1991

Statements of Assets, Obligations and Principal Fund

December 31, 1990 and 1989

		1990	1989
Assets	Investments (Note 1)	\$1,929,940,824	\$2,117,301,168
, ,	Cash	28,111,668	¢2,111,901,100 1,494,041
	Accounts receivable (primarily security sales)	2,804,875	4,745,885
	Dividends and interest receivable	1,929,301	21,449,381
	Refundable federal excise tax (Note 2)	244,033	83,337
	Property—at depreciated cost (Note 3)	1,903,858	2,239,345
	Other assets (Note 4)	7,036,000	4,934,000
	Total assets	\$1,971,970,559	\$2,152,247,157
Obligations and Principal Fund	Accounts payable and accrued liabilities (primarily security purchases)	\$ 17,769,755	\$ 25,451,634
	Deferred federal excise tax (Note 2)	894,594	3,164,315
	Appropriations by the Trustees, approved for specific grantees/purposes but not yet paid (Note 5)	61,840,657	56,666,001
	Total obligations	80,505,006	85,281,950
	Commitments (Notes 1, 4 and 6)		
	Principal fund:		
	Appropriations by the Trustees (Note 5):		
	For allocation to future grantees	45,358,631	35,410,114
	Budget for operations and new grants of the following year	120,150,000	109,416,350
		165,508,631	144,826,464
	Unappropriated	1,725,956,922	1,922,138,743
	Total principal fund	1,891,465,553	2,066,965,207
	Total obligations and principal fund	\$1,971,970,559	\$2,152,247,157
	<u> </u>		

See accompanying notes.

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Statements of Operations and Changes in Principal Fund

Years ended December 31, 1990 and 1989

		1990		1989
Dividends	\$	22,865,355	\$	32,746,665
Interest		73,887,335		61,457,168
Other		330,843		340,600
Realized gain (loss) on sale of marketable securities		(58,543,310)		216,368,692
Total realized investment income		38,540,223		310,913,125
Less: investment expenses		5,203,371		5,969,642
Net realized investment income		33,336,852		304,943,483
Less:				
Approved grants and program costs		89,945,706		86,894,762
General administrative expenses		6,562, 834		5,958,875
Provision for federal excise tax (Note 2)		930,250		2,952,008
		(64,101,938)		209,137,838
Increase (decrease) in unrealized appreciation of marketable securities net of provision (credit) for deferred federal excise tax —1990: (\$2,269,721);				
1989: \$1,910,000 (Notes 1 and 2)	((111,397,716)		93,571,925
Principal fund at beginning of year	2	,066,965,207	1	,764,255,444
Principal fund at end of year	\$1	,891,465,553	\$2	,066,965,207
See accompanying potes				

See accompanying notes.

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Statements of Changes in Financial Position

Years ended December 31, 1990 and 1989

		1990	1989
Sources of Cash	Net realized investment income	\$33,336,852	\$304,943,48
	Federal excise tax refund	60,257	4,341,10
	Net change in accounts receivable, dividends and interest receivable, and accounts payable and accrued liabilities	13,779,211	57,483,318
	Total sources of cash	47,176,320	366,767,91
Applications of Cash	Expenditures for grants and operations:		
	Agricultural Sciences	13,647,977	14,302,560
	Arts & Humanities	14,238,822	13,555,020
	Equal Opportunity	13,875,774	13,522,660
	Health Sciences	14,317,491	10,545,37
	Population Sciences	10,890,643	8,564,683
	Global Environment	2,695,037	402,993
	Special Programming	4,671,866	3,984,597
	School Reform	2,711,133	1,617,569
	International Security	883,296	484,85
	Special Interests & Explorations	3,143,983	4,501,85
	Education for Development		11,71
	International Relations	79,800	328,092
	Bellagio Center & Archives	2,805,278	2,865,182
	Warren Weaver Fellows	762,470	282,139
		84,723,570	74,969,303
	General administrative expenditures	8,328,934	7,784,160
	Special maintenance—Bellagio Center	47,893	102,065
	Subtotal	93,100,397	82,855,528
	Federal excise tax paid (Note 2):		
	For previous year	_	196,510
	For estimated taxes for current year	1,147,500	3,179,700
		1,147,500	3,376,210
	Net securities and reputchase agreement transactions, exclusive of realized gains (losses)	(73,689,204)	279,225,197
	Total applications of cash	20,558,693	365,456,935
	Increase in cash	26,617,627	1,310,975
	Cash balance at beginning of year	1,494,041	183,060
	Cash balance at end of year	\$ 28,111,668	\$ 1,494,041

Notes to Financial Statements

December 31, 1990 and 1989

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 value, when available; and when not available, at cost, adjusted for the Foundation's share of the limited partnership income or loss. Venture capital limited partnership interests are reported at fair value.

	December 31, 1990		December 3	
	Cost	Market Value	Cost	Market Value
Marketable securities:		·		
Repurchase agreements	\$ 11,560,000	\$ 11,560,000	\$ 16,000,000	\$ 16,000,000
U.S. Government obligations	280,366,254	285,390,337	256,174,911	260,446,550
Money market funds	492,717,617	492,717,617	261,473,392	261,473,392
Foreign currency—short-term	1,520,660	1,516,951	209,274	214,839
Certificates of deposit	44,452,836	53,670,158	53,009,201	54,980,107
Corporate obligations	103,646,272	105,552,293	108,362,542	110,560,621
Other investments	1,296,910	450,000	1,296,910	450,000
Preferred stock	325,635	379,803	463,814	514,705
Common stock	682,357,646	679,858,015	1,019,399,359	1,137,054,559
Subtotal	1,618,243,830	1,631,095,174	1,716,389,403	1,841,694,773
Limited partnerships and similar interests:				
Real estate	137,226,549	165;162,333	127,096,549	140,340,821
Venture capital	65,445,882	63,908,874	51,119,514	61,165,272
Other	70,000,000	69,774,443	70,000,000	74,100,302
Subtotal	272,672,431	298,845,650	248,216,063	275,606,395
Total	\$1,890,916,261	\$1,929,940,824	\$1,964,605,466	\$2,117,301,168

At December 31, 1990, the Foundation had entered into futures contracts totaling approximately \$540,864,703, which represents the gross contract amounts and the full extent of the Foundation's involvement. However, those amounts may differ from the Foundation's future cash requirements as the Foundation may close out positions prior to settlement and thus be subject only to the change in the value of the futures contracts. The margin cash requirements for the futures contracts were approximately \$27,982,910 at December 31, 1990. The Foundation is subject to the market risk associated with changes in the value of the underlying financial instruments. Changes in the market values of the underlying instruments are recognized as unrealized gains or losses.

Under the terms of various venture capital and real estate limited partnership agreements, the Foundation has commitments to contribute approximately \$40,000,000 in additional capital, as of December 31, 1990.

2. 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 to a federal excise tax of 2% 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, 1990 and 1989, the Foundation has met the specified distribution requirements and is subject to a federal excise tax of 1% in place of the 2% 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.				
3. Property	Expenditures for capital items are included in the property account and depreciated or 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 1990 was caused by additions of \$304,759 and a decrease of \$640,246 attributable to depreciation and amortization. Depreciation and amortization totalled \$686,107 in 1989.				
4. Pension Plan, Trusteed Savings Plan and postretirement benefits	The Foundation maintains a defined benefit pen employees who are at least 21 years old and have attained the age of 40. The Plan provides retirem and final-average pay, with benefits after retirem living augmentation formula. Plan assets are inv common stocks and fixed-income securities. Selected information on the Plan's funded st. Foundation's statement of financial position at I	e completed one year o nent benefits based on hent subject to increase ested in a diversified p atus and the amounts r	f service or have years of service under a cost-of- ortfolio of		
		1990	1989		
	Plan assets at fair value Less: Projected benefit obligation	\$51,044,000 (34,301,000)	\$52,893,000 (32,039,000)		
	Funded status—surplus	\$16,743,000	\$20,854,000		
	Prepaid pension cost included in other assets	\$ 7,036,000	\$ 4,934,000		

The projected benefit obligation for the Plan was determined using the assumed discount rate of 8.5% and an annual salary increase rate of 6%. The assumed long-term rate of return on plan assets was 9%.

The Foundation also maintains a Trusteed Savings Plan for regular salaried employees under which Foundation contributions are made to equal employee contributions of up to 5% 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 \$250,872 for 1990 and \$232,114 for 1989.

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 (approximately \$890,000 and \$780,000 in 1990 and 1989, respectively) is currently recognized as expense as related insurance premiums are incurred. In December 1990, Statement of Financial Accounting Standards No. 106–"Employers' Accounting for Postretirement Benefits Other Than Pensions" ("SFAS 106") was issued. The provisions of SFAS 106, which require that the expected cost of providing postretirement benefits be accrued during the years that the employee renders the necessary service, become effective during the year ending December 31, 1995. The Foundation has not yet determined the effects that the implementation of the SFAS 106 provisions will have on its financial position or results of operations.

5. 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:

	Appropriated for specific grantees/ purposes	Appropriated for allocation and next year's budget	Total Appropriated
Balance, January 1, 1990	\$56,666,001	\$144,826,464	\$201,492,465
Approved grants, and program and administrative costs	98,572,574	(98,572,574)	-
Lapses and refunds	(320,794)	(895,259)	(1,216,053)
Expenditures for grants and operations	(93,127,124)	-	(93,127,124)
Subtotal	61,790,657	45,358,631	107,149,288
1991 Budget	50,000	120,150,000	120,200,000
Balance, December 31, 1990	\$61,840,657	\$165,508,631	\$227,349,288

6. Long-term leases

At December 31, 1990, base rental commitments under non-cancellable leases for headquarters office space aggregate approximately \$2,375,000 and are payable at approximately \$720,000 annually until 1994. Under the leases, the Foundation is required to pay additional amounts for maintenance, electricity and taxes. The Foundation has subleased portions of its space under two separate sublease agreements. Net rental income under the first sublease will be approximately \$394,000 and under the second approximately \$165,000 during the remaining period of the leases. Rental expense included in the statement of operations was approximately \$1,188,000 in 1990 and \$1,118,000 in 1989.

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Warren Weaver Fellows

The Warren Weaver Fellows Program gives exceptionally talented individuals firsthand experience in the field of philanthropy and also gives the Foundation the benefit of fresh perspectives on its work. Fellows are appointed annually for one-year residencies at the Foundation. They are expected to complete priority projects within the Foundation's program areas, and are encouraged to participate in staff meetings and other official Foundation events.

Cynthia A. Chavez "School Reform for At-Risk Youth in the United States"

Ian Johnstone "International Security"

Yelena Khanga "Black Americans in the Soviet Union"

Sarah C. von der Lippe "Persistent Poverty and Government Policy in the United States"

Judy Mitoma "Internationalizing the Arts" Anthony Romero "Persistent Poverty and Litigation in the United States"

Claire Spencer "Enrichment of the Foundation's activities at its Bellagio Study and Conference Center"

Report of the Secretary

The annual meeting of the Board of Trustees for 1990 was held on March 26–27, and regular meetings of the Board were held on June 12, September 10–11, and December 11. There were no meetings of the executive committee during 1990.

Eleanor Holmes Norton resigned from the Board, effective December 11. She was elected a trustee in 1981 and served on the Executive and Nominating Committees and as chair of the latter. Jack R. Meyer, who joined the Foundation as treasurer and chief investment officer in 1983, resigned, effective August 31. His successor, David A. White, was appointed treasurer and chief investment officer, effective January 14, 1991. Rajaram Ramanathan, who was appointed comptroller in 1982 after having served in the Foundation's field office in India from 1961 to 1971 and in the New York office from 1971, will retire from the Foundation following a year's study leave that began June 1. His successor, *Charles J. Lang*, was appointed comptroller, effective July 23. The work of the Rockefeller Foundation is in three principal areas: international science-based development, the arts and humanities, and equal opportunity. Within science-based development, the emphases are on the global environment and on the agricultural, health, and population sciences. We also have smaller grant programs in international security and in school reform to improve public education for at-risk young people.

To accomplish lasting results with limited resources, the Foundation concentrates its grants and fellowships on purposes approved by the Board of Trustees and expressed in program guidelines. These guidelines have been summarized to introduce each program section in the grants and fellowships listings of this annual report. Copies of the guidelines in full are available from the Foundation.

The Foundation employs a staff of experienced professionals, augmented by consultants and advisory panels, to plan, develop, and conduct its programs. Members of the staff, in order to meet their responsibilities, are expected to travel widely and study extensively, keeping abreast of relevant scholarly and other literature, visiting Foundationsupported projects, talking with others in the field, and observing programs and projects of potential interest.

Many grants therefore stem from proposals stimulated by staff interactions with individuals and institutions that have the qualifications needed to accomplish the objectives of the Foundation's programs. Other grants and fellowships are made through publicized competitions designed to advance program goals. We also receive approximately 8,000 unsolicited proposals each year, and while most are declined because they are for purposes outside the Foundation's program guidelines, we review the remainder and fund those that we can within budgetary limits on a competitive basis.

Grants

The factors considered in evaluating grant proposals include the proposed project's potential 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 and subsequent funding from other sources.

Fellowships

The Foundation offers fellowships for training and to assist in the production of a piece of work. Advanced training fellowships, biotechnology career fellowships, and social science research fellowships are given to help prepare outstanding younger scholars and scientists, primarily from the developing world, to make significant contributions to research and training to public service. In addition, a number of special fellowships are announced and awarded annually through specific Foundation programs.

Limitations

The Foundation, as a matter of policy, 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, we do 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, and organizations that serve and support organized philanthropy in the United States. Although general or core support is seldom given, we try to ensure that the full direct costs of a project are taken into account in the calculation of grant budgets.

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External Affirmative Action Policy

The Rockefeller Foundation believes that important issues of underrepresentation of minorities and women remain unresolved in our society, and we seek to play a helpful and constructive part in their resolution. To that end, the Foundation systematically invests in the professional development of minorities and women and their promotion into leadership roles. The Foundation expects grantee organizations in the United States to do the same.

Consequently, affirmative-action questions will be raised with U.S. applicants and grantees when there appear to be opportunities for constructive collaboration with the Foundation in the interests of improving opportunities for underrepresented groups. In such instances, as a first step, we may ask these institutions to inform us of their efforts, supported when appropriate, with data on the gender and minority composition of the leadership of the institution.

Requests and Applications

In general, no special form is required to apply for a grant or fellowship, but the proposal or application should include: • a description of the proposed

project or fellowship activity, with clearly stated plans and objectives; • 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, if applicable, a description of the institutional setting.

Proposals and applications should be sent to the secretary of the Foundation or to the director of the relevant division or program. Requests for the application form required to apply for a conference or residency at the Bellagio Study and Conference Center should be sent to the attention of the Bellagio Conference Office. For more information about the Foundation, send your inquiries to the Communications Office.

Our general mailing address is:

The Rockefeller Foundation 1133 Avenue of the Americas New York, N.Y. 10036, USA

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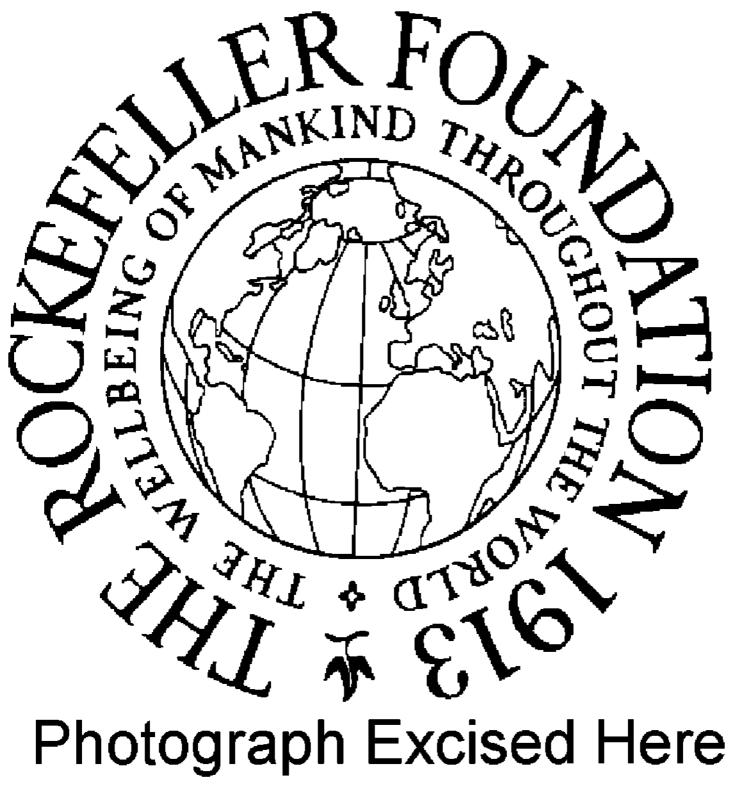
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