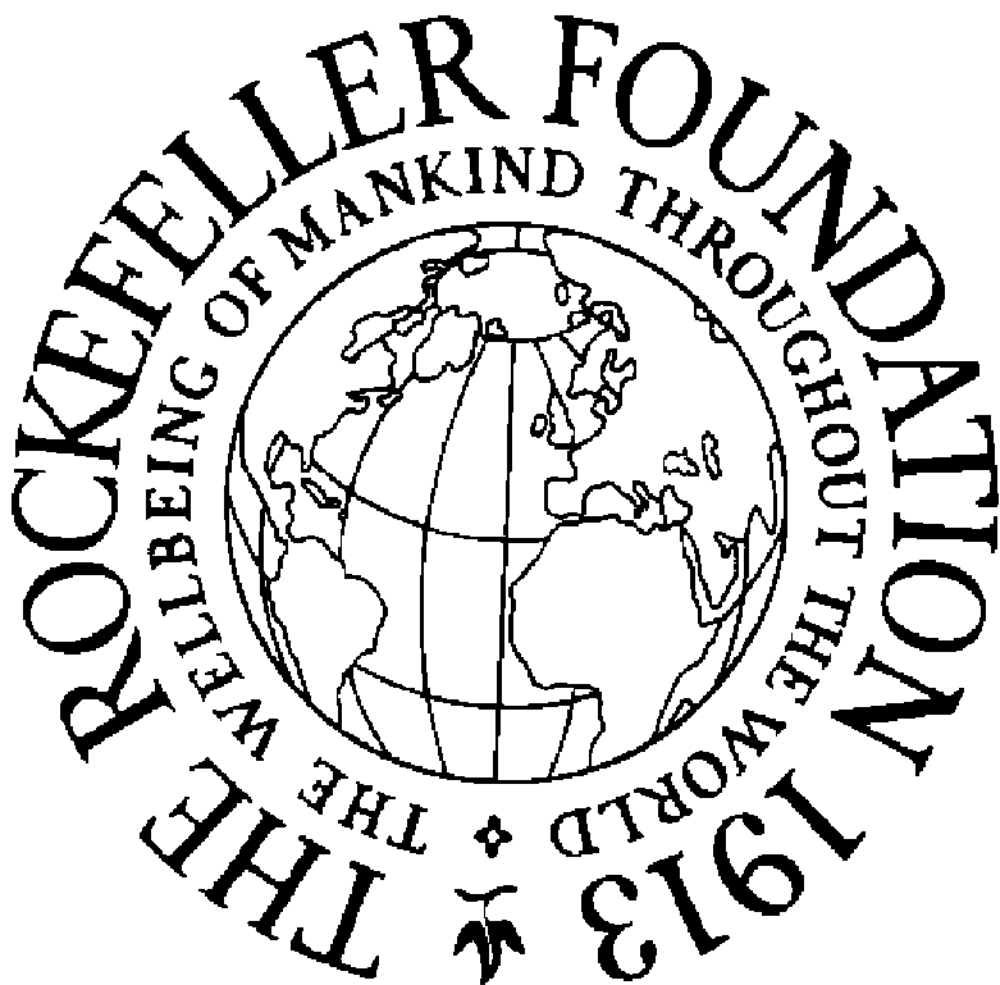


**PRESIDENT'S REVIEW
& ANNUAL REPORT
1989**

The Rockefeller Foundation

1989 Annual Report



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The Rockefeller Foundation

1989 Annual Report



The Rockefeller Foundation
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On the Cover

Workers crowding a main road on their way to jobs in Baotou, China, are a visual reminder that whether all the world's people can live in balance with the natural environment and whether all the world's countries and cultures can achieve a reasonable and just standard of living are emerging as two aspects of the same issue

Introduction

The Rockefeller Foundation is a philanthropic organization endowed by John D. Rockefeller and chartered in 1913 "to promote the well-being of mankind throughout the world." It is one of America's oldest private foundations and one of the few with strong international interests. From the beginning, 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 and, in the

United States, 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. The Foundation also has smaller grant programs in international security and in school reform to improve public education for at-risk young people.

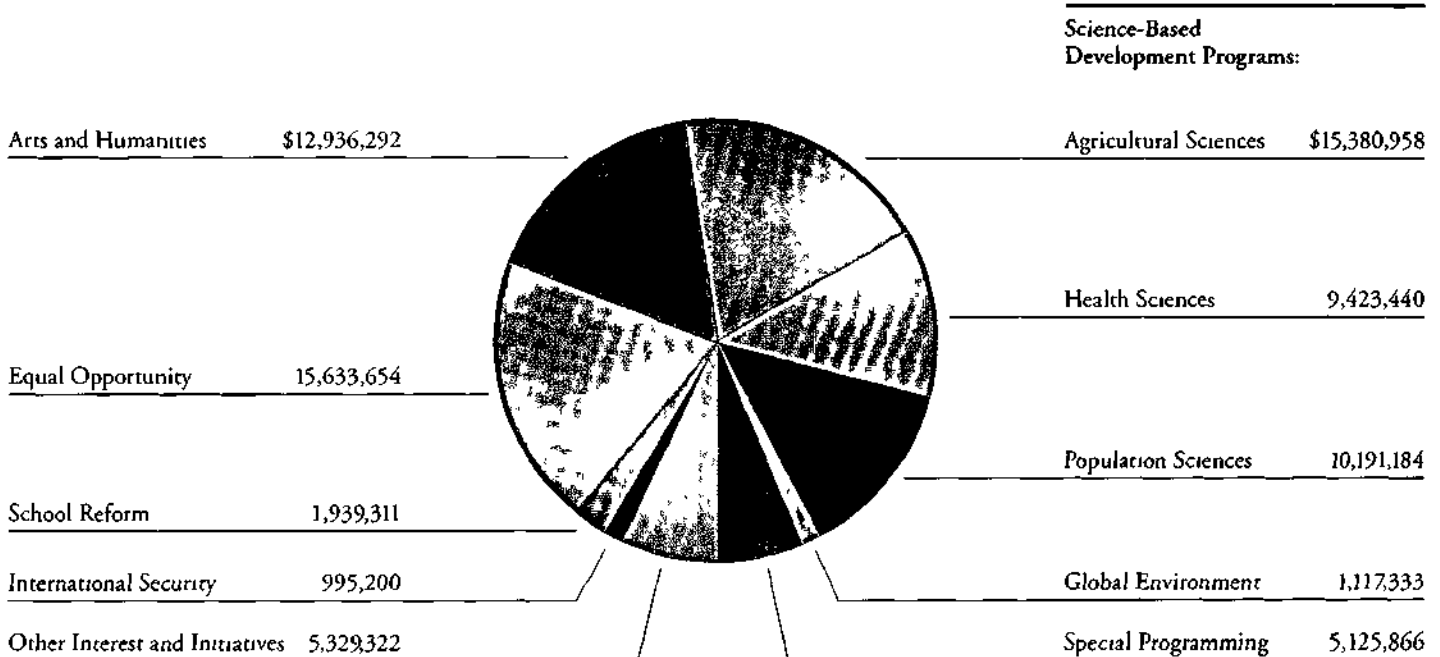
The Foundation concentrates its efforts on selected programs with well-defined goals, but tries to remain flexible by adjusting its course to reflect new needs and opportunities as they arise. In addition, the Foundation maintains the Bellagio Study and Conference Center in northern Italy for conferences

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.

Information on how to apply for grants and fellowships begins on page 104.

Grants and Fellowships 1989



Total \$78,072,560

Nineteen eighty-nine humbled those of us who analyze "From Stettin in the Baltic to Trieste in the Adriatic," as Winston Churchill described the descent "of an iron curtain . . . across the continent," people changed their governments and the future of Europe.

No one foresaw this change; no one conjured the possibility of it before it happened.

The optimism most widely voiced early in 1989 about the possibility of political change was snuffed out with the repression in Tiananmen Square.

In South Africa, where there was little apparent cause for optimism, the promise of change was in the air by the end of 1989

All this is exhilarating, because it means the possibility of change and progress is always far greater than we imagine it to be

All this is perplexing, because it means our ability to plot the causes of change is far less than we pretend.

All this is sobering, because it means the possibility of catastrophe and deterioration may also be greater than we imagine it to be.

How shall we prepare for the future?

As we look to the reordering foreshadowed by the powerful changes of 1989, it becomes important to seek a vision which embraces development in the South, demanded by hunger and equity, and protection of the biosphere from environmental degradation, carried out today by the North and threatened tomorrow by the South. And it remains impor-



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tant to address those root failures at home that threaten America's economic strength, social fairness, moral authority, and political confidence, and comity in the decades ahead.

In the course of 1989 the Foundation set in place three new initiatives: a Global Environmental Program, a domestic program of School Reform, and a small program in International Security. These programs build upon fundamental Foundation strengths and history.

Global Environment

The launching of the Global Environmental Program recasts the Foundation's international programs. We recognize that development and the environment are related dimensions of one issue, and that the search for development

paths consistent with the long-term viability of the biofilm is now an imperative global task. The Foundation intends to spend roughly \$50 million over the next five years to

- identify and support the human capital needed around the world to fashion policies for environmentally sound development, with special emphasis on the concerns and voice of the Third World;
- prepare the ground for the international and regional bargains that will be necessary if we are to replace patterns of exploitation and consumption with ones of balance and sustainable investment;
- build new frameworks of economic analysis and environmental "scorekeeping" to help guide these adjustments,
- help Americans prepare for the changes in economic and living patterns that will be required by new environmental realities.

School Reform

As our international program was broadened by the addition of a concern for the global environment, our domestic emphasis on addressing persistent poverty was enriched by the addition of a major initiative in school reform.

There are in the United States about eight million school-age children at risk of slipping into long-term alienation and poverty. All have some contact with a school. But for too many that interaction will not lead to sustained personal growth, educational attainment, or the skills needed to succeed in society and the workplace.

The crisis in our schools has been recognized and documented. It is time to move down the difficult but important road of taking successful educational approaches beyond the incubator and into everyday practice in as many districts and schools as possible.

One of the most successful approaches to helping at-risk communities transform their schools is that pioneered by Dr. James Comer. He has developed a system; he has applied it in a score of schools around the country; and it has been successful. The centerpiece of the Foundation's school reform program will be a partnership with Dr. Comer to see if his methods can be applied in hundreds of schools at once.

Additional elements are:

- continuation of the CHART program which helps teachers in the

arts and humanities to improve their students' international and intercultural perspectives;

- funding summer "Leadership Academies" to train teams of principals and teachers to manage schools in ways that improve the life prospects of at-risk children;
- support of parent and community groups involved in school reform, led by five local affiliates of the National Urban League; and
- continuation of Arts Propel, which develops and tests alternative methods of assessing talents and intelligence in young people.

The Foundation's Equal Opportunity Program seeks to understand and address the problem of persistent poverty in our urban areas. We support scholarship and local action programs aimed at the problem of the underclass, plus revitalization of urban neighborhoods through community development corporations. The addition of the education reform initiative extends that concern to the one local institution that is universally and absolutely indispensable to a child's growth and success: the school.

International Security

The International Security program is new, small and flexible. It proceeds from the premise that the danger from arsenals of mass destruction is serious and will be of long duration, and that a foundation concerned with the well-being of humankind should devote a portion of its resources to address it.

The International Security program will support steps which can lead to regimes of control, verifica-

tion, and peacekeeping in a world where 15-20 powers have access to nuclear, chemical, biological or ballistic technology. This means the program will concentrate on issues of proliferation and arms control in the South as well as in the North. The program this year ranged from support for the first trial inspection by scientists from one superpower of the sea-borne nuclear cruise missiles of another superpower, on board the Soviet cruiser *Slava* in the Black Sea, to funding for Parliamentarians' Global Action as they organize a bloc of non-superpower signatories to the Partial Test Ban Treaty to force a reconsideration by all signatories, including the United States, the U.S.S.R., and the United Kingdom, of the merits of a Comprehensive Test Ban.

The Science-Based Development program, which ties together our international work in Agricultural, Health and Population Sciences, focused more clearly in 1989 on needs in sub-Saharan Africa. New or increased emphasis on topics from a small farming to midwifery, from National Consultative Board in Epidemiology in Cameroon to AIDS prevention in Uganda, reinforced our existing concern with the application of knowledge and technology to manage food production, family size, and health in the poorest countries of the world.

An important example of this in 1989 was the development and

transfer to the South—in this case to Latin America—of a cheap, large-scale method for manufacturing rabies vaccine, a technology which may be usable for other vaccines.

Art has impact only if it is experienced. The explosion this decade of cable TV and videocassette technology has made the home an expanding center for the visual media. But not for art and important documentaries. For example: have you tried to buy or rent "Eyes on the Prize," the superb documentary on the U.S. civil rights movement, on home videocassette? Close to 70 percent of U.S. homes and 60 percent of libraries have a videocassette recorder/player. Yet in this era of mass communication, much of the best film and video art is simply not available to schools, museums, or individuals.

The Arts and Humanities Division will help establish an independent non-profit corporation which will support the legal, financial, and marketing expertise necessary to give public access to a wider range of video and film material. This is an ambitious goal, similar in scope to that undertaken by the Foundation in the 1970s when it established what has become New World Records to make available the work of American musical composers and artists. The challenge today is to make it possible for a wide public to be able to see or obtain videocassettes of thousands of important works not now accessible for legal or marketing reasons.

Every once in a while an unforeseeable, emotionally charged issue demands large amounts of attention and energy. The national controversy over funding policies for the arts, triggered by the Serrano photograph and the Mapplethorpe exhibit, was such an issue in 1989.

The Foundation has funded for the past ten years Awards in the Visual Arts, a competition and exhibition of regional artists. The program is administered by the Southeastern Center for Contemporary Art, which engages independent panels to select awardees. One artist selected in 1987 was Andres Serrano, and it was one of his exhibited photographs that sparked the controversy.

The Foundation received hundreds of letters—some form letters, some individually written—vehemently objecting to funding policies which were mistakenly thought to be an endorsement of a specific piece of work. Some of the letters were filled with hate and venom; the majority were from Americans whose religious or personal sensibilities were genuinely offended.

In our responses, both publicly through the media and in the replies sent to each person who wrote to the Foundation, we defended vigorously the values we thought were important:

1. Every artist has the right to create and to exhibit whatever he or she

chooses; by the same token, every citizen has the right to express his or her criticism of the work of another.

2. The Foundation does not condone bigotry against Christianity or any other religion. The Foundation hopes others will recognize that a program of regional and national exhibits and awards administered by independent professionals can lead experts and lay people to differ, sometimes sharply, on the appropriateness or the message of the art and artists selected.

3. The Foundation does not agree with those who wrote us calling for the "firing" of any employee of the National Endowment of the Arts (NEA) who may have been involved in NEA's role as a co-funder of the exhibit. Indeed, none of those who called for such firing argued that any law or procedure governing the NEA or its staff had been violated.

4. The Foundation does not "apologize" for its support of this regional art exhibit. (We were called on by many writers to "apologize.") The Foundation does express regret for the anguish felt by those who were offended by this specific work. (They included some of our own employees.)

We held to this position through the summer and fall. We received many brickbats, little praise. Fueled further by the Mapplethorpe exhibition later in the year, the controversy boiled up into congressional hearings, floor fights over legislative amendments, and a continuing torrent of newspaper and magazine articles. At year's end AT&T joined the Foundation in funding The American Assembly to mount a

series of public forums in 1990 to examine dispassionately the major issues raised by this controversy about what standards should guide government funding for the arts

The new directions taken this year were the subject of extended review and discussion by the Foundation's Board of Trustees. The Board, which was enriched by the addition of five new members in 1989, directed its time and counsel to the early stages of the process, debating and shaping our programs as they were being proposed and formulated.

The Board also took to the road. In March, half a dozen board members visited community development projects in the South Bronx. And in the fall, nine trustees visited Foundation programs in Kenya and Uganda as we focused and strengthened our concentration in Africa. The lesson was clear: the more you touch, see, taste, and hear, the more you understand.

In 1989 we invited ten talented young people to join the Foundation for 12 months as the first class of Warren Weaver Fellows. They brought to the Foundation a variety of skills and backgrounds ranging from forestry to theology, from energy physics to public health. Their excitement, their intensity, and their readiness to challenge established ways has stirred the Foundation from the cafeteria to the boardroom.



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When the history of the twentieth century is written, the year 1989 will appear again and again in many chronicles. And along with pictures of citizens knocking down the Berlin wall, the photograph of a lone Chinese student standing before a column of tanks in Tiananmen Square will illustrate many texts.

The Foundation's relationship with China dates from 1914, when the Foundation organized the China Medical Commission and subsequently financed establishment of the Peking Union Medical School. We decided not to withdraw from programs we were supporting in China following the events of June. But our first representatives to visit that country after those events conveyed in public settings our deep unhappiness at the events of June and the repression that has followed, and stated our insistence that joint projects could command sup-

port and promise success only in an atmosphere of free inquiry.

The year 1989 may mark the point at which the force fields of human affairs were seen to swing from East-West to North-South. The opportunities and dangers of the new period will test us all. We will have to define and secure a common ground on this planet from which to defeat poverty and stabilize the environment. To do this will require new knowledge, a strong sense of equity, and a talent for constructive accommodation. We will need the tenacity to undertake long, difficult tasks and the tolerance to let diverse voices define the common interest. The role of foundations in this endeavor will be to start early and to aim high.

A handwritten signature in cursive script that reads "Peter Goldmark".

Peter C. Goldmark, Jr.

New Program Highlights for 1989

Much of what occupied the time and attention of the Foundation's staff and board was new in 1989. In many ways it was a year of beginnings. This section is a narrative sampler of these new initiatives.

The list of grants and fellowships that follows this section is the more complete view of the year's activities. It chronicles *all* the new projects of 1989 as well as the larger number of grants and fellowships for activities that were continued from prior years.

Three major program initiatives were launched this year. One links action on the global environment with international development, a second seeks to accelerate the adoption of successful approaches for improving public education of at risk children in the United States, and the third, with a special emphasis on developing-world perspectives, encourages ideas for limiting the spread of nuclear, chemical, and biological weapons of superordinate destruction.

The Global Environmental Program

The new Global Environmental Program will give initial emphasis to assisting developing countries to advance environmentally sound development in their own countries and participate fully in international responses to environmental

challenges. The Foundation anticipates spending a total of at least \$50 million over the first five years of this program.

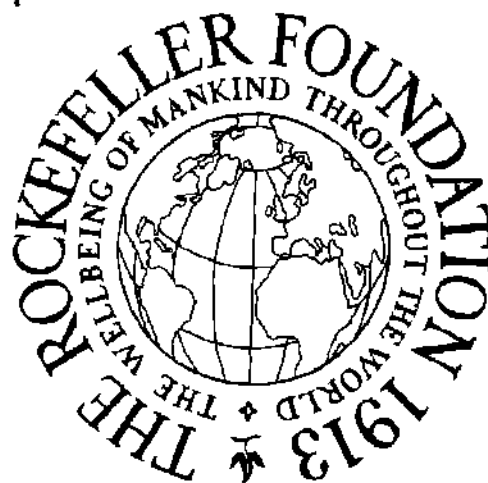
The program's agenda will continue to be shaped in the months and years ahead by cooperative planning and action with other foundations and organizations, but it begins with four broad areas of interest for grant and fellowship activity.

First is the creation of a cadre of young environmental scientists, analysts, policymakers, and community leaders who can be architects of future policy in development and the environment. The larger objective will be to assist a selected number of large developing countries as they strengthen the human and institutional capacity needed to manage their own natural resources and energy use and to participate politically and scientifically as new global agreements and institutional arrangements are fashioned.

Second is the training of environmental economists in the developing world and the development of economic research applied to environmental decision making, resource accounting and monitoring, and global bargaining and scorekeeping.

The third area of interest centers around the relationships, cultural perspectives, and institutional

The application of science and technology to development in the industrial nations of the world has not always been kind to the environment. The challenge today and a basic aim of the Foundation's new environmental initiative is to promote a more equitable sharing of the world's resources and yet avoid repetition of environmentally unsound development practices.



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changes required to foster global and regional accords on such subjects as energy generation and use, forest preservation, ozone layer depletion, hazardous waste generation and disposal, greenhouse emission, and preservation of clean water and arable land. The Foundation will support focused activities preparing the ground for such bargains and will seek opportunities to develop prototypes and experiments which could lead to more comprehensive agreements.

And finally, there are the attitudes and processes which will shape how the United States undertakes its share of the global adjustments necessary to protect the environment and promote a more equitable sharing of the earth's resources. The Foundation will not be considering funding requests in this area until explorations with a number of groups are completed on possible initial activities.

As part of the planning and development process for this new program, the Foundation provided support for a number of activities during 1989. For example, the first three in a series of environmental workshops and meetings have been funded and scheduled for 1990 at the Foundation's Bellagio Study and Conference Center in Italy. Topics and convening organizations are "Environmental Ministers and the Global Energy Challenge," by the International Foundation for the Survival and Development of

Humanity, "Setting Out a 1990s Environmental Economics Agenda," by the International Institute for Environment and Development, and "Global Warming North-South and the Planetary Partnership," by Parliamentarians Global Action for Disarmament, Development and World Reform.

Science specific environmental projects are being funded through the Foundation's existing divisions in agriculture, health, and population sciences. Among the first was a group of grants to expand the relatively small knowledge base about African soils and how crop rotation and other biological measures as well as the judicious use of chemical fertilizers can be used on that continent to increase crop yields in ways that are more economic and sustainable over time.

These grants include support for an examination of the applicability to Africa of the results of long term studies on the economic and the environmental sustainability of continuous cropping systems. Another grant will expand research of the Tropical Soil Biology and Fertility African Network, particularly in Zimbabwe and Zambia, seeking better ways to use ecological systems, including worms, insects, and microorganisms, to enhance soil productivity and sustainability. Three other Agricultural Sciences appropriations also support activities important to the new environmental initiative:

- collaboration between Kenya and Malawi scientists and the International Council for Research in Agroforestry in Nairobi for on farm evaluation of agroforestry practices intended to help offset erosion and



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Finding environmentally sound approaches to increase food production is a critical task for sub-Saharan Africans, who are among the poorest fed people in the world. A number of projects funded this year are exploring the use of crop rotation, leaf litter, microorganisms, and other biological means to increase and maintain soil fertility.

fertility exhaustion of soils in the two countries;

- an examination by the World Resources Institute of the environmental implications of present and alternative commodity-pricing arrangements, provisions for water systems, and other agricultural policies in selected countries in South Asia and Latin America;
- and a Foundation fellowship program enabling environmental scientists to work with those in other disciplines at international research centers in the developing world on such problems as desertification, loss of genetic diversity, and pollution from pesticides and other farm chemicals

School Reform to Improve U.S. Public Education

The pathfinding, successful work of child psychiatrist James P. Comer, of Yale University, is the centerpiece of the Foundation's new multi-year initiative to improve the school performance of at-risk students. Dr. Comer, whose methods are used currently in more than 70 schools, stresses the importance of a child's psychological preparation for school and emphasizes the collaboration of school staff and parents in the child's academic and social development.

To promote the widespread adoption of Dr. Comer's concepts, the Foundation will fund three projects:

- Southern Connecticut State University, the main source of teachers in the school system, will design and field test a teacher-training curriculum based on the Comer principles that can be replicated easily in other schools of education and school systems.

- The Foundation and Dr. Comer will produce "how-to" videos and accompanying manuals featuring the Comer approach for use by educators and parent groups nationwide
- And several universities and state departments of education will conduct collaborative projects implementing the Comer approach. In the first such effort, the District of Columbia Public Schools, working with Howard University, will adopt the Comer approach in ten schools in 1990 and introduce it over time in every elementary school in the District

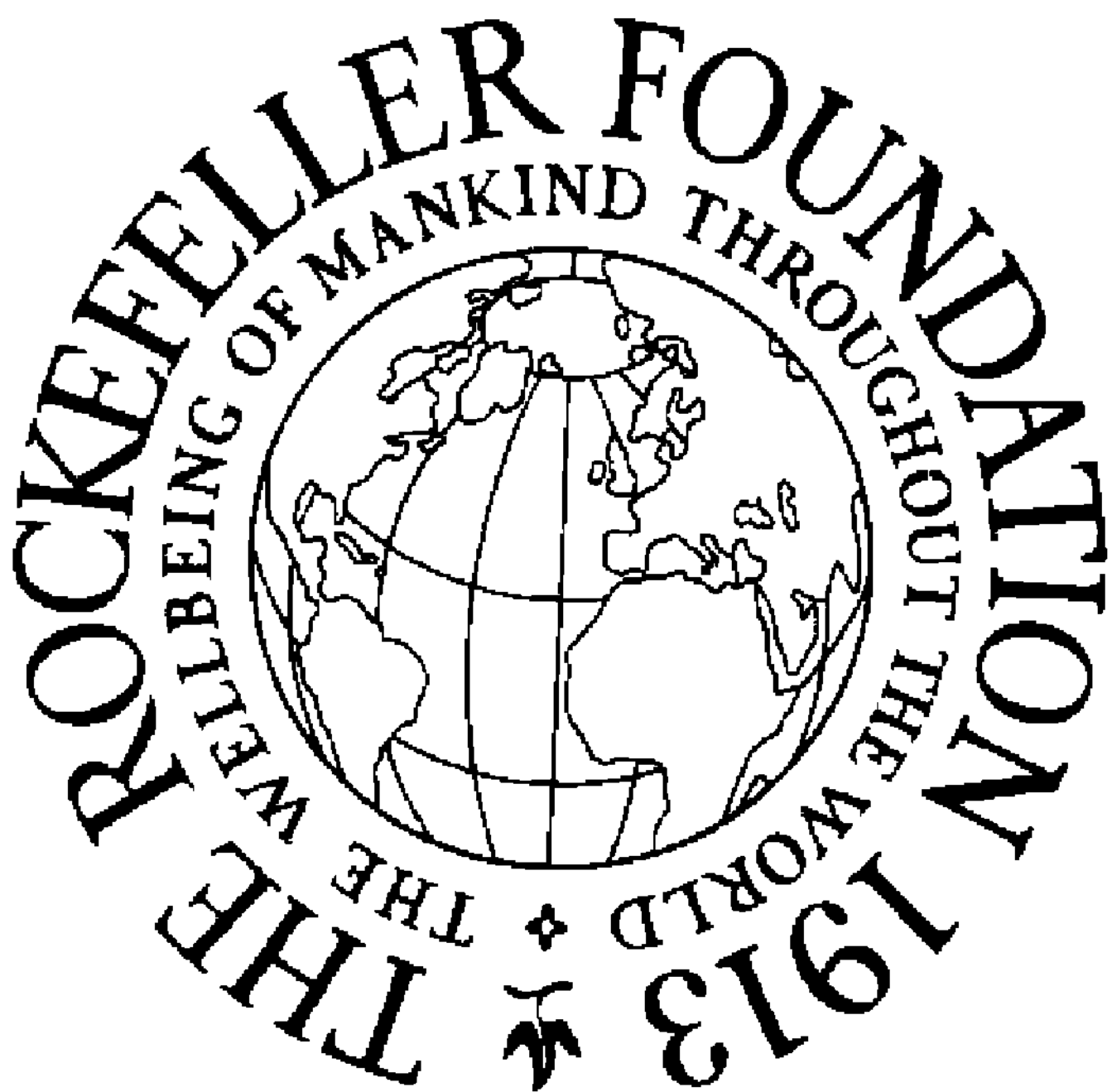
In addition, the new school initiative includes support for (1) pilot summer academies to train school leadership teams to manage schools in ways that improve the life prospects of at-risk children, and (2) community-based projects promoting school reforms that benefit disadvantaged children in five cities.

Two pilot leadership academies will begin in the summer of 1990. One academy, the Center for a New American Education at Michigan State University, will train elementary and secondary school principals

Dr. James P. Comer, of Yale University, has pioneered a successful educational approach emphasizing the collaboration of school staff and parents in the child's academic and social development. The Foundation is underwriting efforts to speed the widespread adoption of his methods for educating at risk students.



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and teachers in such topics as the developmental needs and strengths of urban students, new teaching techniques, school organization and management, budget planning, and community collaboration. At the other site, the New Mexico Academy for School Learners at the University of New Mexico, educators, parents, and child development specialists will draw on Dr. Comer's work by focusing on the needs of children at risk, culturally based conflict, family interactions, group decision making, and planning for school reform.

The National Urban League will use Foundation support to underwrite pilot projects by its local affiliates in five cities to mobilize community support for school reform. These projects will be based on the work of the League's Rochester affiliate, which resulted in the creation of a citywide task force and reforms giving teachers and principals added decision-making powers, raising their salaries, and increasing their accountability for student performance.

The Foundation and its grantees alike in this school reform initiative know that attempts to gain widespread adoption of social changes that have been successful in more limited applications are difficult ventures at best. In the case of school reform, however, the consequences of not trying far outweigh the risks of failure. And as Harvard's Paul Ylvisaker has noted: an important, albeit high-risk, role of

foundations is to serve as a "passing gear for society" in promoting social improvement.

International Security

The Foundation plans to spend \$1–\$2 million through 1990 on grants and fellowships focused on two international security objectives.

One is to limit the proliferation of weapons of mass destruction, including ballistic missiles and chemical and biological arms as well as nuclear weapons, through the support of transnational monitoring, surveillance, and watchdog projects.

The second is to define security in the global context by (1) encouraging participation from the developing world in international security deliberations and related activities, and (2) broadening the international security agenda to include the environment and other global issues.

Grants this year included support of the Institute for East-West Security Studies to ensure developing-country representation on its new task force to examine and make recommendations on military-related, Third World issues. This effort will involve specialists and officials from the North and South on such topics as the spread of ballistic missile technology, chemical weapons, and high-impact conventional weapons.

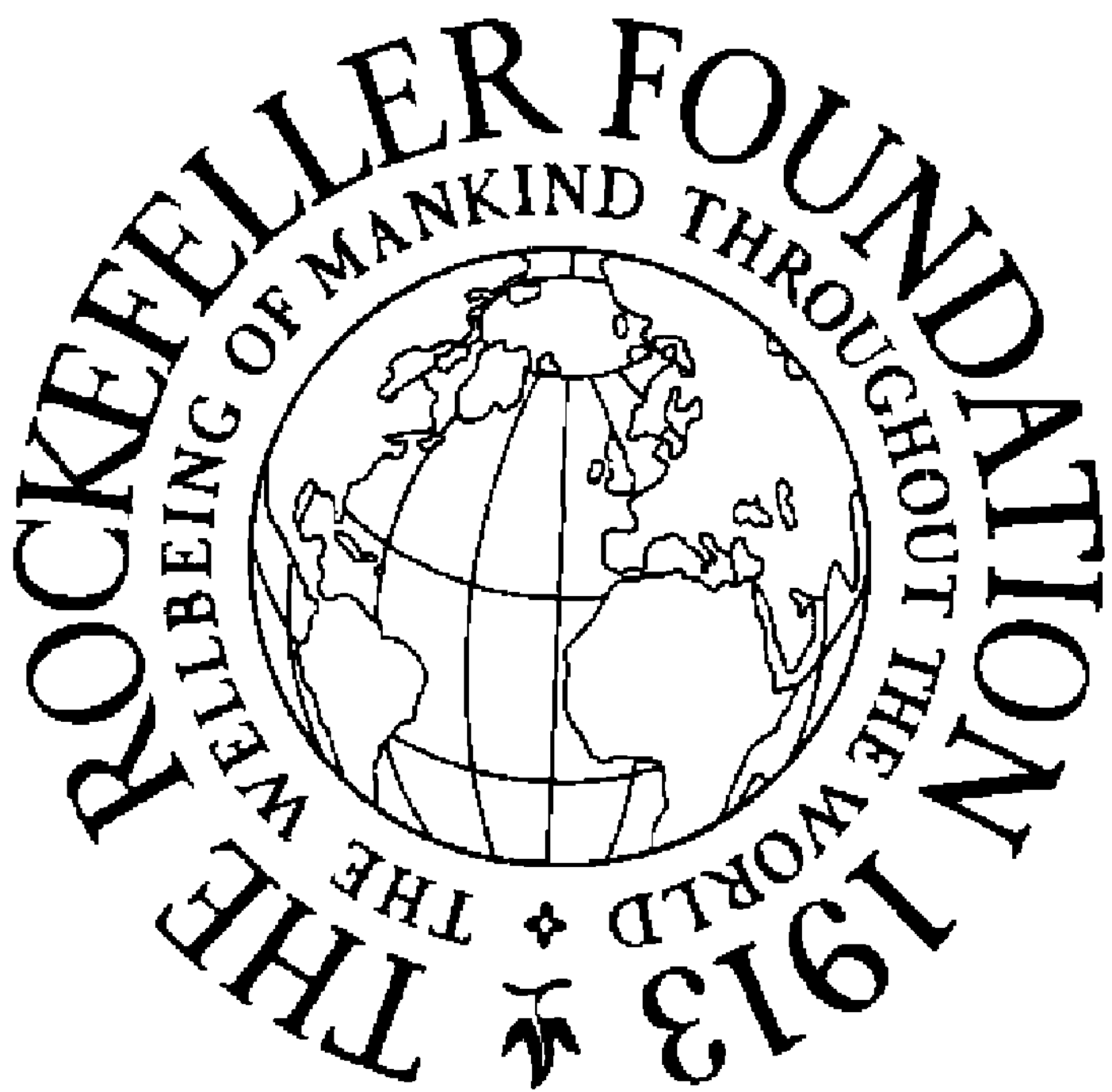
Similarly, a grant to the network of lawmakers from around the world known as Parliamentarians Global Action is being used (1) to promote expansion of the Partial Test Ban Treaty of 1963 to include underground nuclear testing; (2) to develop improved verification proposals for that treaty; and (3) to organize opportunities for interaction between government leaders

and technical experts around the 1970 Nuclear Non-proliferation Treaty.

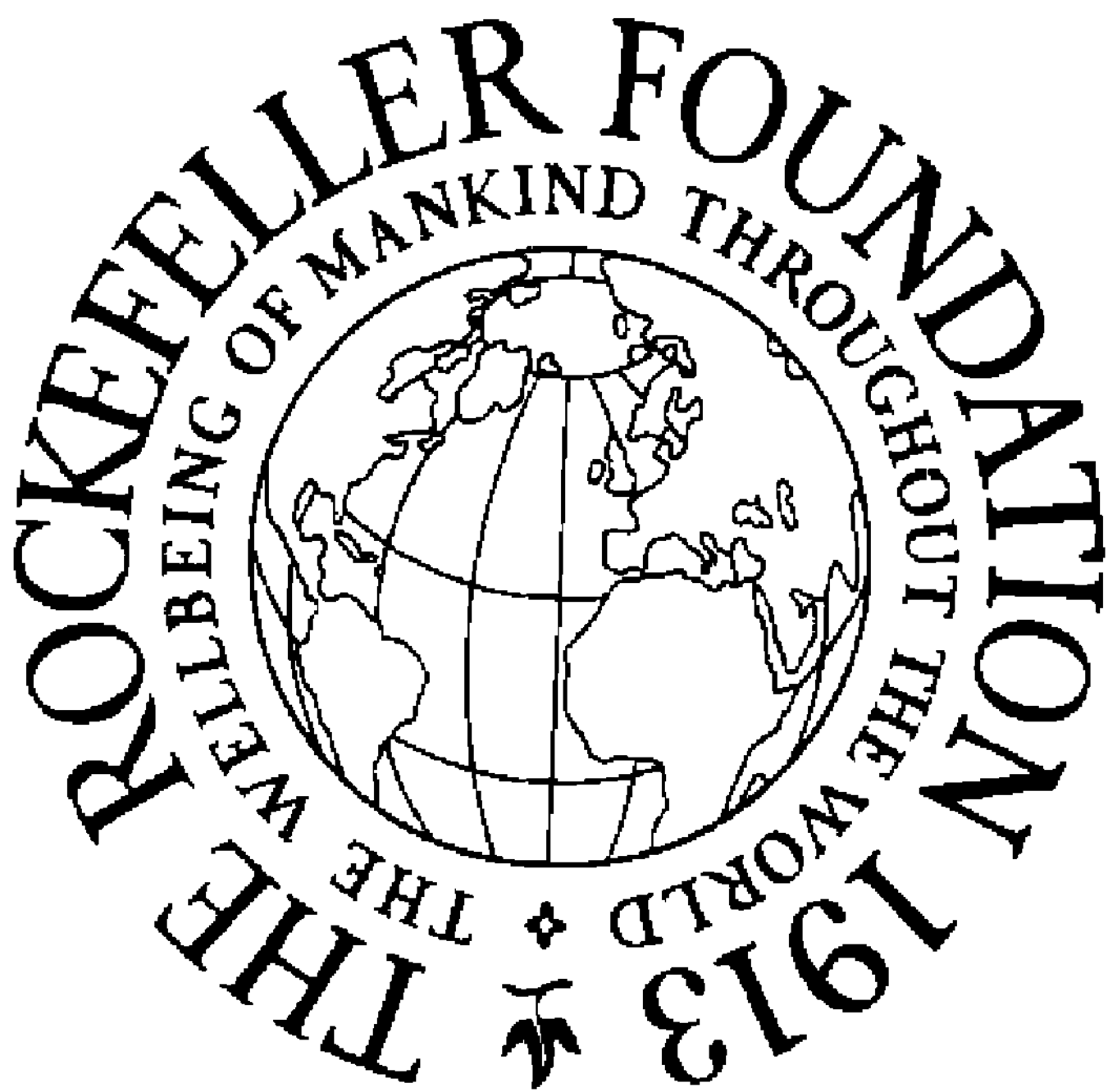
The Natural Resources Defense Council, with the Soviet Academy of Sciences, used a grant this year in support of a series of verification "firsts." An inspection team examined a nuclear-armed missile aboard a Soviet cruiser on the Black Sea, visited the Kyshtym nuclear complex producing plutonium for Soviet nuclear weapons since 1948, and toured a Soviet laser weapons research facility in an area that also serves as the Soviet Union's test range for research on ballistic missile defenses.

The Foundation also joined with the John D. and Catherine T. MacArthur Foundation to co-fund a task force examining implications for U.S. defense policy of the changing relations between the United States and the Soviet Union. The project is co-chaired by Alice Rivlin, who served as the first director of the Congressional Budget Office, and David Jones, retired Air Force general and former chairman of the Joint Chiefs of Staff.

A team of American and Soviet scientists conducted unprecedented nuclear weapons verification experiments this past summer on the Baltic Sea aboard the Soviet missile cruiser Slava. The exercise, assisted by the Foundation, was a joint project of the Natural Resources Defense Council and the Soviet Academy of Sciences.



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International Program to Support Science-Based Development

The International Program to Support Science-Based Development provides the focus for three of the Foundation's divisions—agricultural sciences, health sciences, and population sciences—joined this year by the new 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.

This "capacity building" includes advanced training of scientists and other professionals from the developing world and support for work in the developing world that connects the products of research with adopting strategies that are both effective and equitable. The Foundation's programs often incorporate strategies fostering partnerships and networks between organizations and specialists in industrialized and developing countries and, increasingly, among groups and individuals within a number of developing countries.

New Initiatives in Sub-Saharan Africa

On the basis of comparative need, sub-Saharan Africa has been targeted for greater attention within the Science-Based Development Program.

This region, larger than the United States and China combined, has a gross national product equal to that of Spain, and the lowest gross

national product per capita in the world.

Its people are the poorest fed of any region of comparable size in the world, and food production in the region has declined over most of the past 20 years.

The region's fertility rate is the highest in the world. At the present rate of increase, the population will double in 24 years.

And the countries' stock of debt in the region relative to the size of their economies is by far the largest of any group of debtor countries.

Sub-Saharan Africa's share of Science-Based Development program spending in 1989 was 33 percent, up from 21 percent just two years ago.

The projects for environment-related agricultural activities in sub-Saharan Africa, detailed above, are examples of the new commitments made this year. In addition, the Foundation joined with the West German development agency and the U.S. Agency for International Development to help the University of Zimbabwe's Faculty of Agriculture develop a graduate program that can train most of the country's future research and extension staff and, in particular, forge strong ties with the smallholder farming community.

In the fields of health and population, two important new initiatives

Dr. William Thilly, of the Massachusetts Institute of Technology, developed this new tissue culture system for vaccine production, which outproduces even the best contemporary technology, and is simpler and less expensive to operate. It can be used to produce virtually any viral vaccine. Dr. Thilly and the Canadian Institut Armand Frappier, with Foundation funding, have installed the new system at the Bogota plant of the Colombian Company of Veterinary Products (VECOL). By year's end, VECOL had produced its first million doses of animal rabies vaccine and was well into its plans to use the equipment to produce human rabies vaccine and vaccines against other animal diseases.

in sub-Saharan Africa were begun this year.

Cameroon, with the Foundation's assistance, is creating a national epidemiology board that can link the ministry of health with local educational and research institutions to mobilize and concentrate resources for identifying and meeting the country's most important health problems. A parallel project in Mexico is described on page 25.

Both the Cameroon and Mexico projects will draw on the experiences of a national epidemiology board developed earlier in Thailand, also with Foundation assistance. Their mission: identify national health and family-planning problems and rank them in terms of their effect on the health of the population; identify key research questions and find suitable national institutions to perform such research; analyze the data developed; and, on this basis, provide policy and program advice to the health minister and top health administrators.

One of the most important resources available to these national epidemiology boards is the cadre of researchers staffing clinical epidemiology units being established with Foundation support in 27 developing-country medical schools. Organized as the International Clinical Epidemiology Network, these physicians and other professionals are conducting research and training programs focusing on their countries' most serious, large-scale health problems and on effective health

measures and policies to control or overcome these health problems.

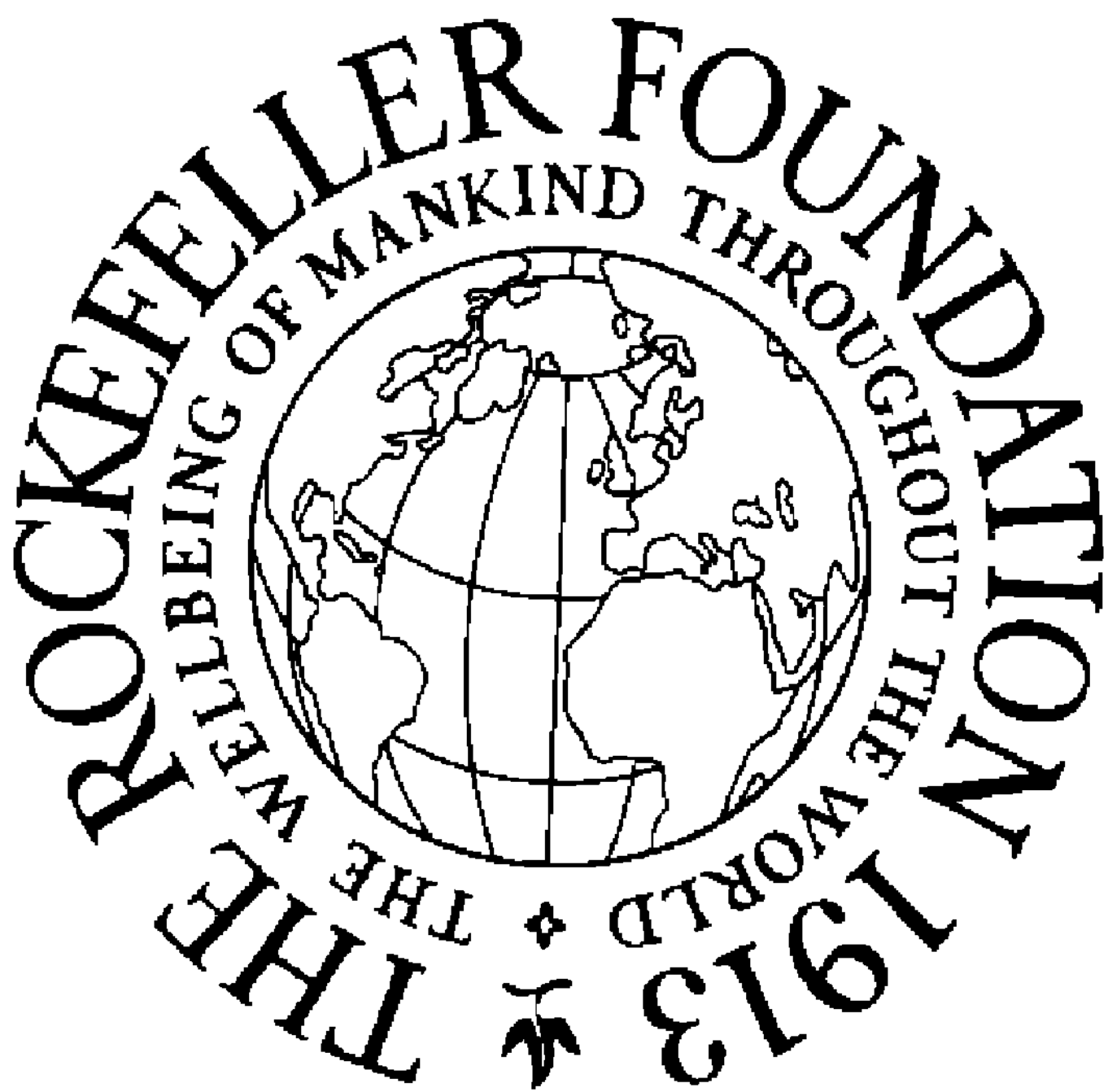
Sub-Saharan Africa has the world's highest maternal mortality rate—640 deaths per 100,000 births—and for every woman who dies during pregnancy, 15 others are irreparably injured by pregnancy. Impelled by such data, the Foundation's other new health and population project in the region will help Malawi and Uganda develop a capacity to train more nurse-midwives and traditional birth attendants. Collaborating in the effort are faculty in nurse-midwifery from the University of Pennsylvania and the Case Western Reserve University in the United States and from the University of Malawi and Uganda's Makerere University in Africa. In parallel, national women's groups in the two African countries are to receive Foundation funds to expand their programs on women's health.

The Commonwealth Regional Health Secretariat of East, Central, and Southern Africa is a coordinating body set up by the ministers of health of 11 countries that have a total population of about 80 million. Another major appropriation approved this year will help the Secretariat foster regional collaboration on reproductive health and population priorities by enabling

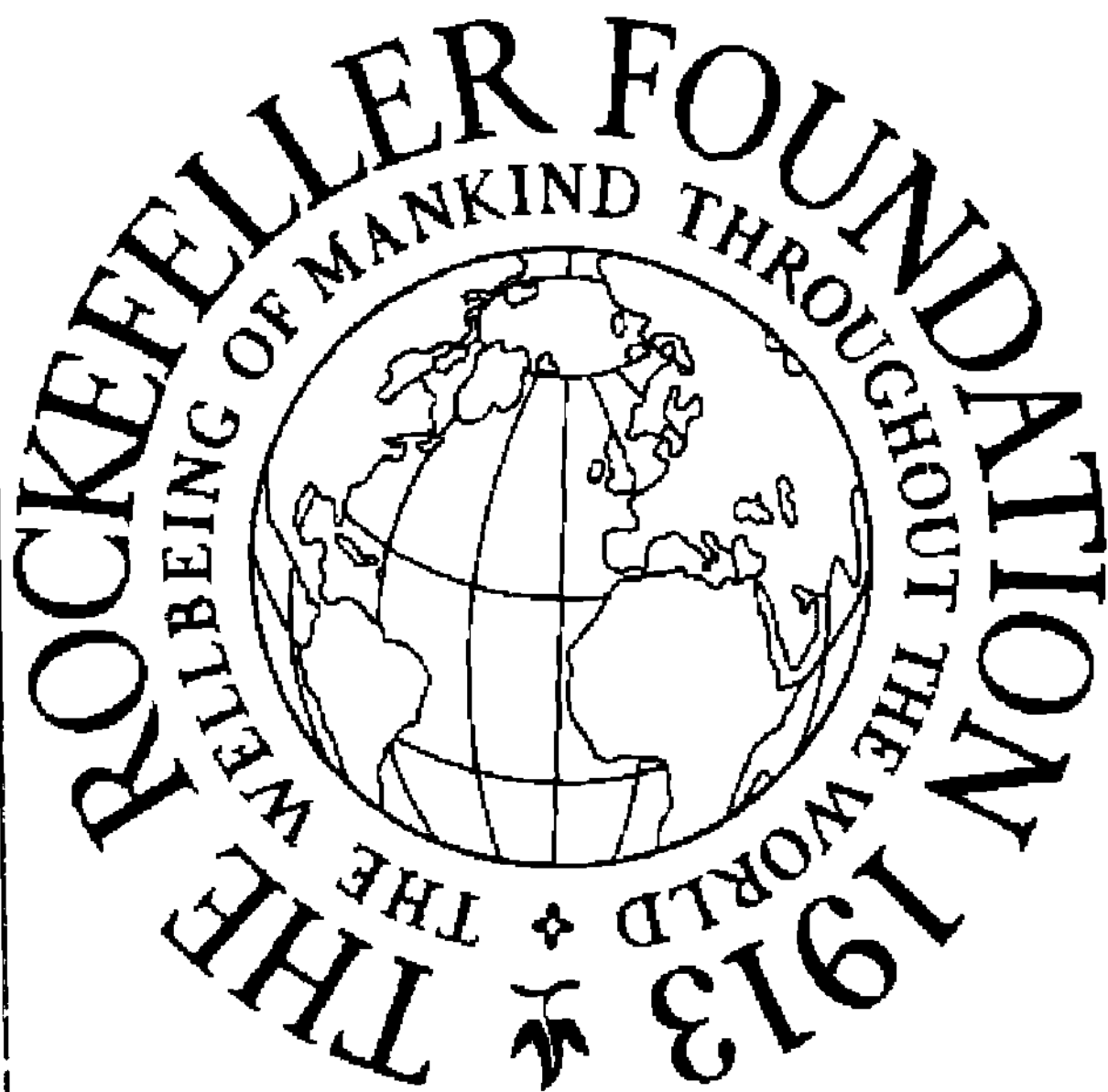
Bananas supply 17 percent of Uganda's food and are a major source of income for family farms. The Foundation is funding a series of studies, including on farm trials, in that country to find ways to overcome the pests, disease, and loss of soil fertility that in recent years have reduced yields



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A Foundation-supported project in Malawi is seeking to increase yields from hard-grain varieties of matze, which are more suited to processing and storage methods and less susceptible to insect attack and disease in that country than higher-yield, soft-grained varieties. Matze, the country's most important food crop, is planted on three-quarters of the land owned by small farmers in Malawi.



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medical research institutions in this group of countries—which includes Kenya, Tanzania, Uganda, and Zambia—to add reproductive health and population issues to their research agendas.

Finally, among the Foundation's appropriations for new initiatives in sub-Saharan Africa in 1989 are funds underwriting the first efforts of a recently formed group of 19 donor organizations seeking ways to work cooperatively in assisting African governments to increase female school enrollment. School participation of African females continues to lag behind that of males to a greater degree than in any other region of the developing world. This disparity persists despite proven links between (1) mothers' education and their children's health and readiness for learning, (2) female education and reduced fertility, and (3) female education and productive self-employment both on and off farms.

Other New Initiatives in Science-Based Development

This year, key research institutes in Bangladesh, Thailand, Indonesia, and the Philippines joined the Foundation's international program using the most advanced biotechnology techniques available to create better rice plant varieties for the range of growing conditions found around the world. The emphasis among these new participants will be advanced training for their scientists and the use of new technologies like genetic mapping based on DNA markers. Scientific teams in five other countries are already participating: China, India, Malaysia, Korea, and Nepal.

Sculptor Francis Nnaggenda polishes The War Victim, a hauntingly powerful, mutilated torso that he carved from a destroyed Mekubu tree on the Makerere University campus where he is a lecturer. The Foundation purchased the work and donated it to the university, where it has been mounted in the Main Library.



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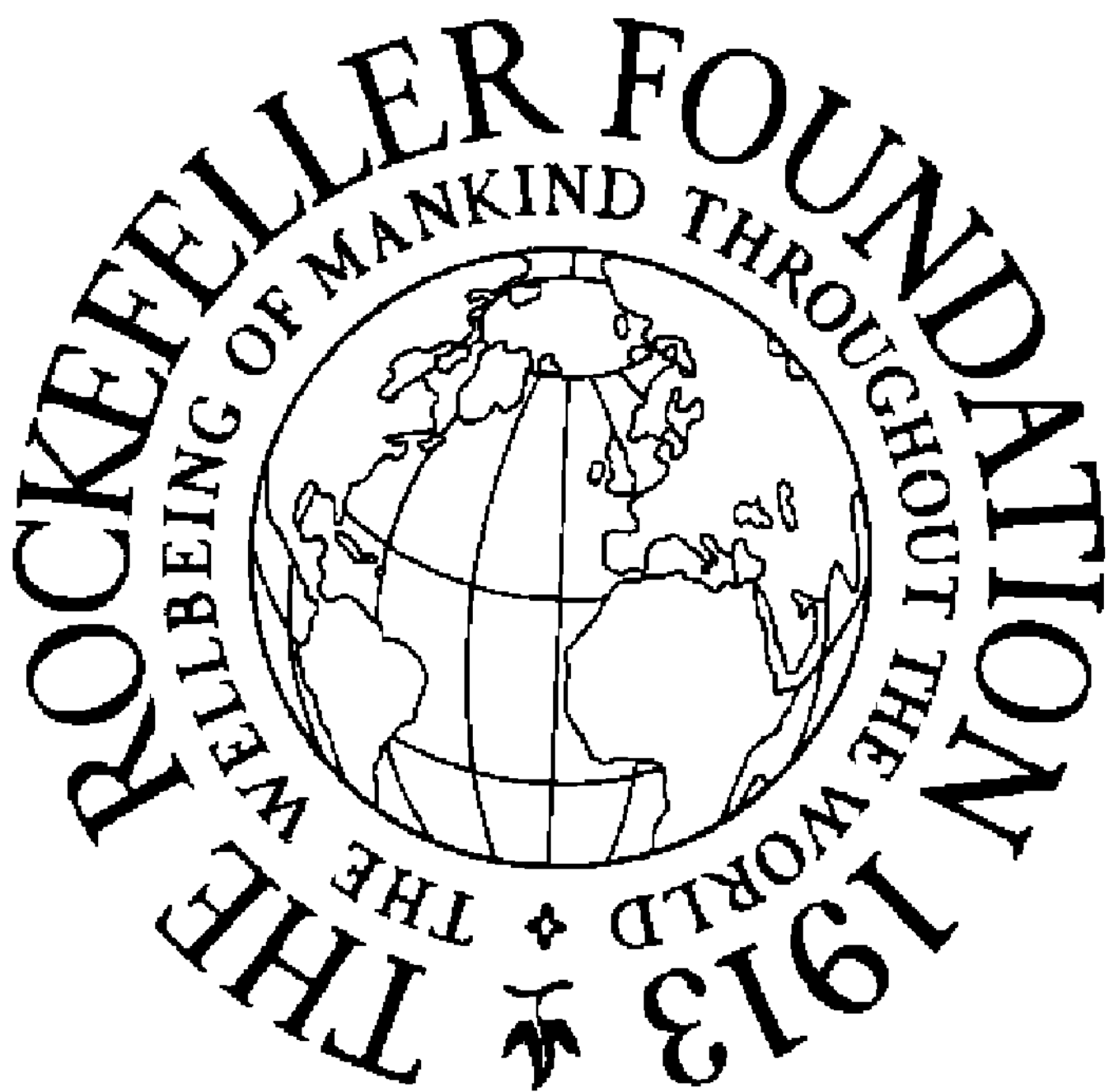
In addition, four other major new agricultural initiatives were funded this year:

- a Texas A&M University project to genetically map sorghum, using DNA markers, and training developing-country scientists in its use to improve this cereal, which is a staple in much of semi-arid Africa and in India, China, and Brazil;
- final development of the University of London's Wye College correspondence program offering master's degree education stressing economics and management for professionals working throughout the Third World on agricultural development projects focused on small farms and associated households, in health and nutrition programs, in agricultural processing and marketing, and in government planning and policy analysis;
- a Cornell University project to identify the core books and journals having optimal value for developing-country researchers and policy-makers in the agricultural sciences, as a first step toward what may eventually become a computer database available in developing-world institutions;
- and a study involving social and agricultural scientists from develop-

A summer science camp for Tanzanian secondary students offers a lens for examining how hands-on problem-solving approaches can be used to expand and improve science teaching and learning, both in and out of schools. Funded as part of the Foundation's exploration into ways of increasing children's scientific literacy in Africa, this venture draws staff and other resources from the University of Dar es Salaam, Nkrumah Teachers' College, and the Ministry of Education of Zanzibar



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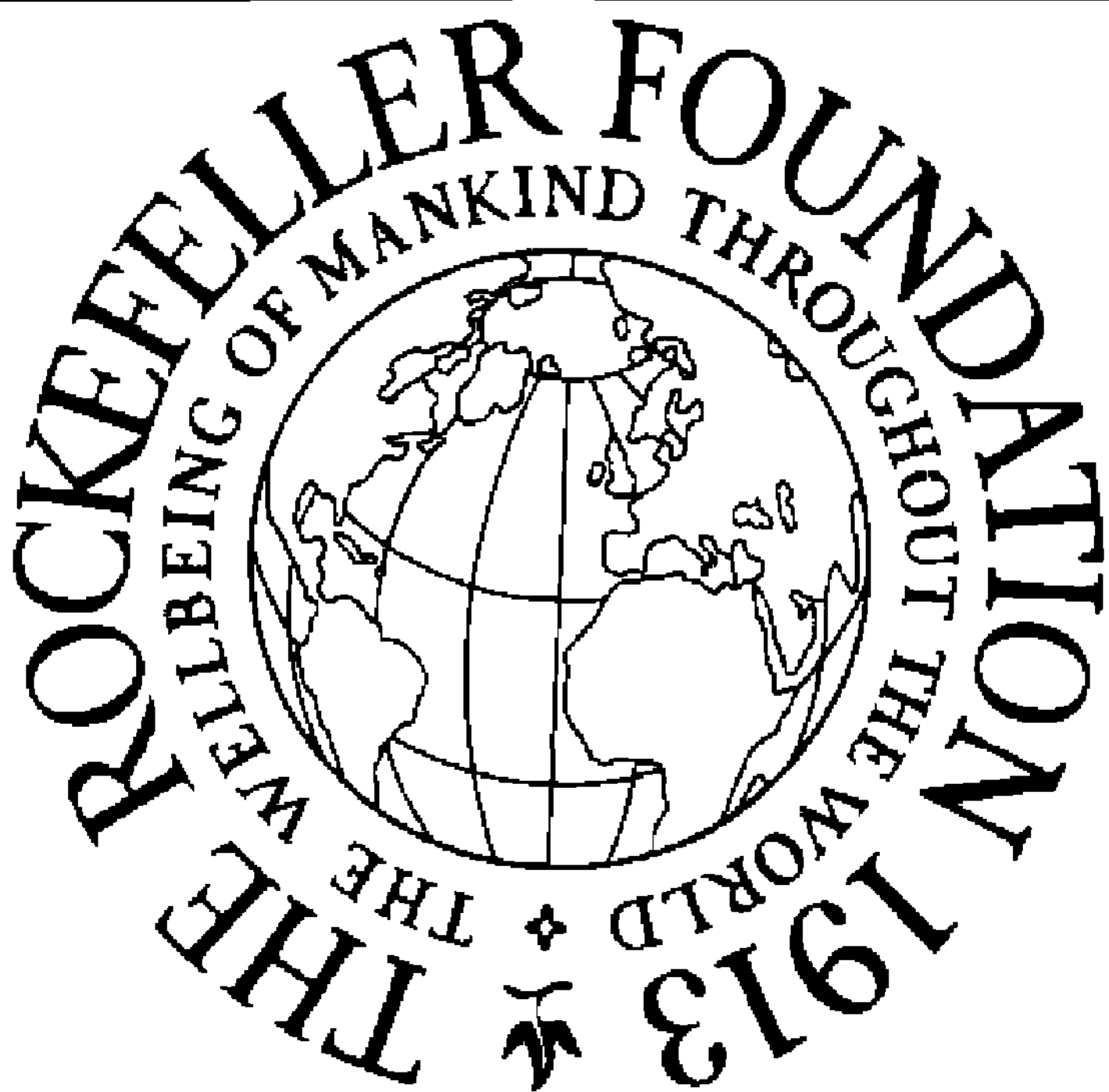
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ing and developed countries aimed at producing methods enabling a developing country to determine priorities with respect to size and mix of its agricultural biotechnology effort.

The Foundation's initiative assisting Cameroon to establish a national epidemiology board, described in the section above on sub-Saharan Africa, was paralleled by support for a similar board in Mexico. Mexico's secretary of health created the Advisory Board in Epidemiology, and Foundation funds will match the ministry's allocation to identify the most important health targets for the country. Priority areas for research are reproductive health, substance abuse, infectious diseases, the quality and accessibility of health services, environmental health, and cancer.

Clinical trials began in India this year on a contraceptive vaccine for women, with support from the Foundation's South-to-South program, a network of developing-world population scientists. The planned dosage calls for an initial vaccination followed by two booster injections a month apart and thereafter every three years. India's population is now more than 800 million, and although the growth rate is declining, U.N. projections show it passing a billion before the end of the decade and exceeding China's population about the year 2030.

A major grant was also made in support of the Population Council's new initiative to help developing countries integrate women's health and population policies. Emphases in this new initiative are on (1) reducing the incidence of and treating unsafe abortions; (2) improving post-partum care for mothers and their infants; (3) developing low-cost, reliable materials for diagnosing, treating, and educating the public about AIDS and other sexually transmitted diseases; and (4) improving the quality of contraceptive services.



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Arts and Humanities

The Foundation's Arts and Humanities Program primarily seeks to encourage creative artists and scholars and teachers in the humanities 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.

By 1990, estimates are that close to 70 percent of U.S. homes will have a videocassette recorder. Already, over 60 percent of U.S. libraries are building videocassette collections. But this technology's potential for giving the public access to new artistry and ideas, for better educating them about their own and other cultures, remains unrealized. This is not because independent media artists are failing to produce high-quality cultural, educational, political, and social works. The Foundation's fellowship program for U.S. film- and video-makers and other Foundation initiatives all indicate that exceptional work is being created in this country, in Europe, and now in Africa, Latin America, and Asia.

A Foundation-appointed task force composed of leading distributors, film and videomakers, and other experts in 1989 found the

problem is one of severely limited distribution due to a variety of legal problems—largely having to do with rights—and marketing issues.

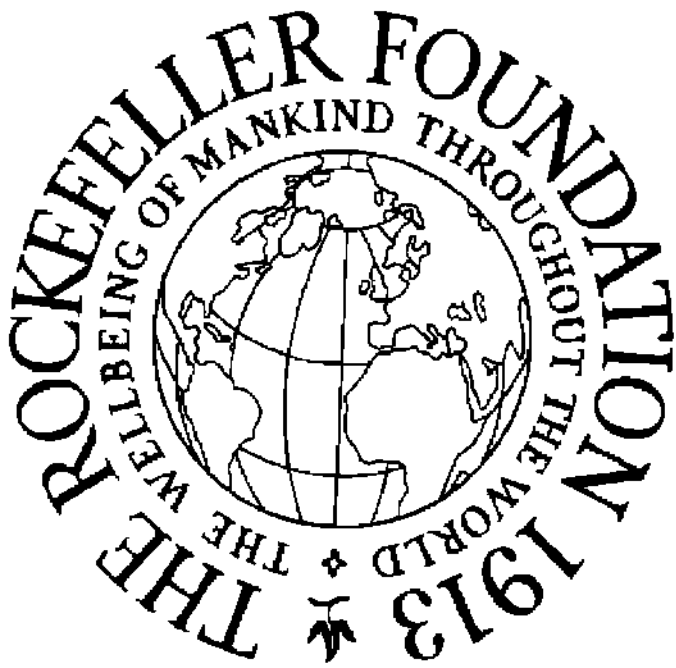
Following up on the task force's recommendations, the Foundation has committed funds to establish a nonprofit resource organization to fortify the efforts of existing nonprofit distributors by providing needed services for film- and video-makers that could lower distribution barriers.

Plans are to launch this entity in 1990. Initial projects might include curating, packaging, and promotional assistance; research and technical assistance on rights questions; conducting market surveys and other efforts to identify receptive market segments; creating a catalogue for cassettes equivalent to *Books in Print*; and creating a national mailing list of outlets that carry noncommercial material and developing telephone and mail order purchasing systems.

Each year the Foundation supports a few important, large-scale public television series that bring research in selected areas of the arts or humanities to wider audiences.

"The Dance Project," an eight-part series scheduled for broadcast in 1990, builds on the idea of dance as a

Work has begun on "The Dance Project," an eight-part series scheduled for public television in 1990. The objective of this new work is to transport the viewer around the globe in an exploration of world culture via the medium of dance.



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Sheila's Day was created in a series of workshops at the Crossroads Theatre Company, of New Brunswick, New Jersey. The production reflects the parallel struggles for dignity and civil rights by African-American and South African women through a fusion of drama, humor, music, and dance. It began a national tour early in 1990, and was one of 20 projects supported in 1989 under the Multi-Arts Production Fund, which promotes the understanding of diverse cultural heritages

key to the humanistic study of world culture.

Research for the series, assisted by an earlier, smaller grant, has taken an approach that is neither historical nor geographical, nor geared to the various genre of dance. Rather, the series will explore dance in cross-cultural terms: as a universal human activity, as a vehicle of the divine, as an expression of social order and power, as an art form and spectacle, as an expression of cultural mores, as a medium of cultural fusion, and as the creation of individual artists.

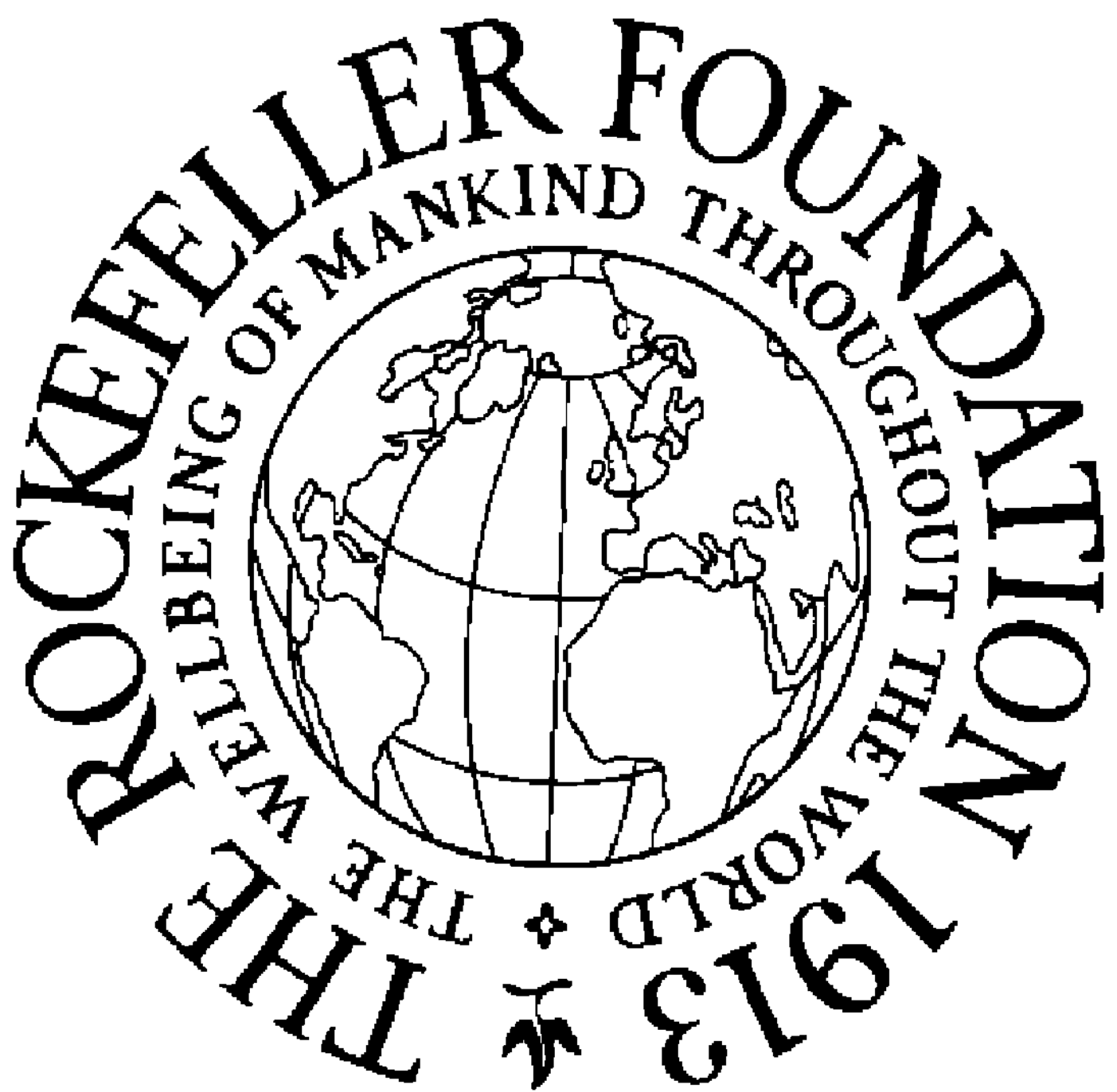
The twin goals of the series are to stimulate interest in dance and in the humanities, and to provide viewers with perspectives for better understanding the aesthetics and functions of dance activities in their own and other societies. It is being filmed in indigenous settings around

the world, guided by experts native to each country. Dancers, choreographers, and audience members will be interviewed while the series narrator provides bridging and continuity between the episodes, and differing points of view are brought out in conversations with distinguished "guides" in the dance field.

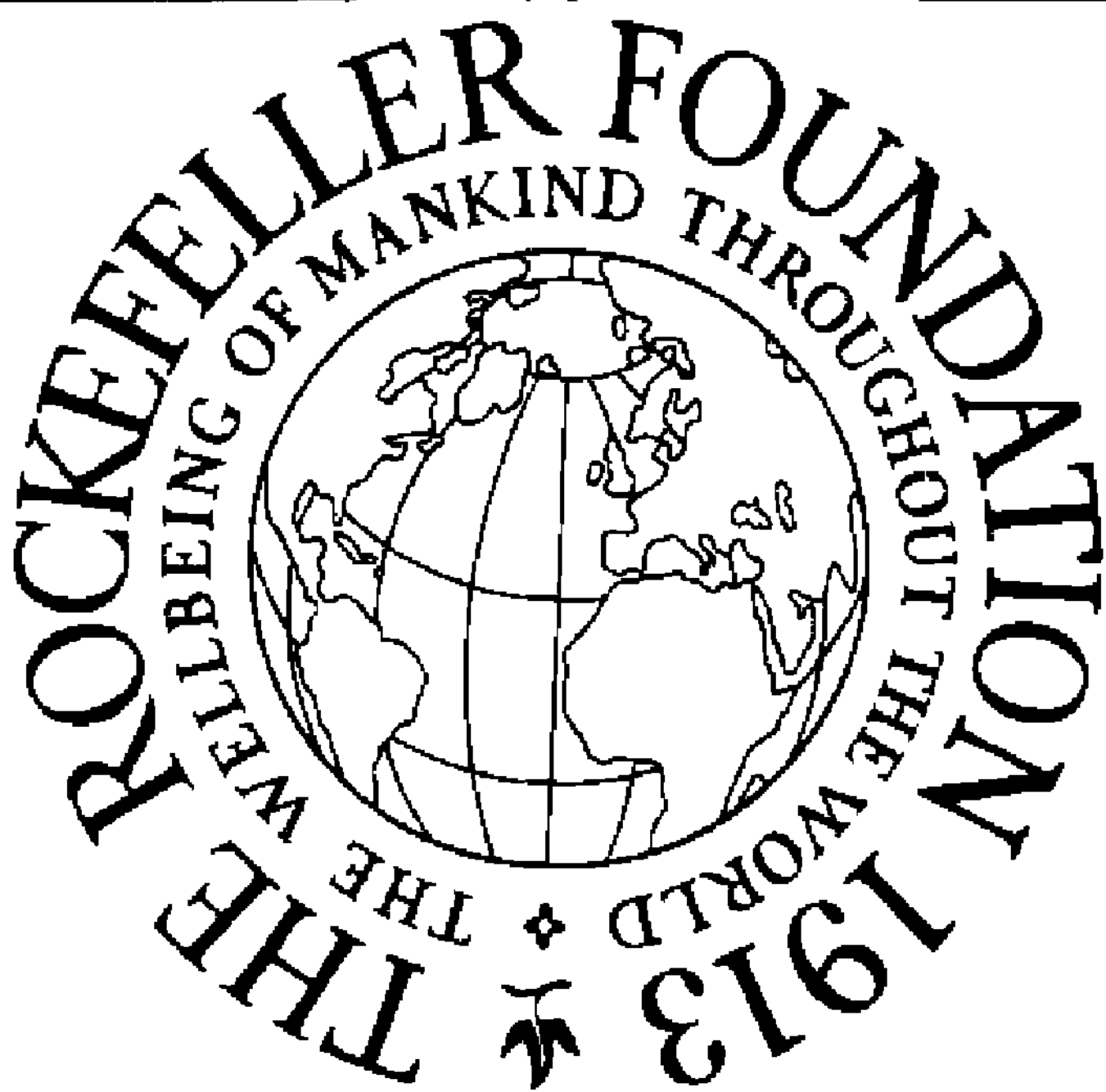
Preceding this year's new initiatives to improve public education for at-risk children (see page 12) was the Foundation-supported CHART program. CHART is a network of collaborative projects to improve arts and humanities teaching and curricula in ways that foster inter-cultural and international understanding, and it was expanded this year to include the public school systems of Miami and Washington, D.C.

In Miami, the county school system and the teachers' union have joined to create a high school humanities initiative aimed at reducing prejudice among black, white, and Hispanic youth. In the Washington school system, which is also participating in one of the Foundation's

New York's Joyce Theater opened its 1989-90 season with Native American dance, song, and music performed by The American Indian Dance Theatre. The three weeks of performances, made possible by a Foundation grant, included special presentations for groups of school children. The 26-member troupe, representing 15 tribes from the United States and Canada, preserves the authenticity of traditional tribal dances while enhancing them with theatrical settings and lighting.



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newer education initiatives, the CHART focus is on African-American culture as a means of engaging at-risk students and helping them gain greater self-esteem.

The other CHART sites are the public school systems in Atlanta, Los Angeles, New York City, Philadelphia, Pittsburgh, St. Louis, St. Paul, San Francisco, Seattle, 10 school districts in South Carolina, and the Arkansas state school system.

This year the Pew Charitable Trusts, in Philadelphia, joined with the Foundation, the National Endowment for the Arts, and the U.S. Information Agency in underwriting a fund that, since 1987, has enabled U.S. artists to participate in and benefit from international arts festivals and exhibitions.

Margo Machida is a humanities fellow at the Asian/American Center of Queens College, City University of New York, which is one of 27 sites funded by the Foundation to extend international and intercultural scholarship. An artist and curator herself—she is an instructor at the Parsons School of Design—Ms. Machida is investigating the representation of self and community by Asian-Americans through their visual arts.

In 1989, top honors at the São Paulo Bienal went to sculptor Martin Puryear, who with assistance from this fund represented the United States with an exhibition curated by Kellie Jones of the Jamaica Arts Center in New York City. In the performing arts, the numbers of applicants and grantees increased significantly over 1988, and 94 artists or companies were selected from 150 applicants to receive \$545,300 in grants.

Also, Arts International, a division of the Institute of International Education, was designated this year to administer this effort—the Fund for U.S. Artists at International Festivals and Exhibitions, whose resources for the year totaled \$1.1 million.

Awards in the Visual Arts (AVA), a program of the Southeastern Center for Contemporary Art in Winston-Salem, North Carolina, each year provides ten talented regional artists with cash awards and a series of museum exhibitions that assure them of further recognition at a national level. The winners are selected by a panel of distinguished experts, and the Foundation has been one of the funders of this competition since its inception in 1981.

Public controversy was aroused in the spring over a photograph that was among the works exhibited in the 1988 AVA show, which closed the previous January. The photograph, by Andres Serrano, has been perceived by its critics as a work of blasphemy. This national controversy was further inflamed shortly thereafter by another exhibition of photographs, these by the late Robert Mapplethorpe.

Although the Foundation has received hundreds of letters from individuals offended by the Serrano photograph (see page 6 for the Foundation's response), the principal focus of the public outcry has been the National Endowment for the Arts (NEA), a federal agency that co-funded the AVA and also provided some of the funding for the Mapplethorpe exhibition.

Amid widely publicized debate on freedom of expression and what checks there ought to be on government funding of the arts, Congress added language to the NEA appropriation highly critical of the agency and mandating 180-day examination of NEA procedures by a special commission to be appointed by Congress and the President. This debate is certain to continue in 1990 when Congress must either renew the NEA's authorization or see the agency close.

The time is right for involving in the debate a diversity of serious-minded American leaders—



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including government officials, business executives, religious leaders, and educators. This national discussion should center on broad policy issues concerning the arts: their functions and roles in a democratic society; the relationships, possible and advisable, between government and the arts; the impact of sponsorship or support on artistic standards and freedom; and presumptions about rights—audience rights as well as artistic rights—in representation and presentation.

Accordingly, the Foundation made a grant late in 1989 that will enable the American Assembly to

organize and report in 1990 on just such a national examination and discussion of these issues. This will include a series of regional meetings followed by a national conference.

Awards under a number of ongoing competitive arts and humanities programs were also made in 1989.

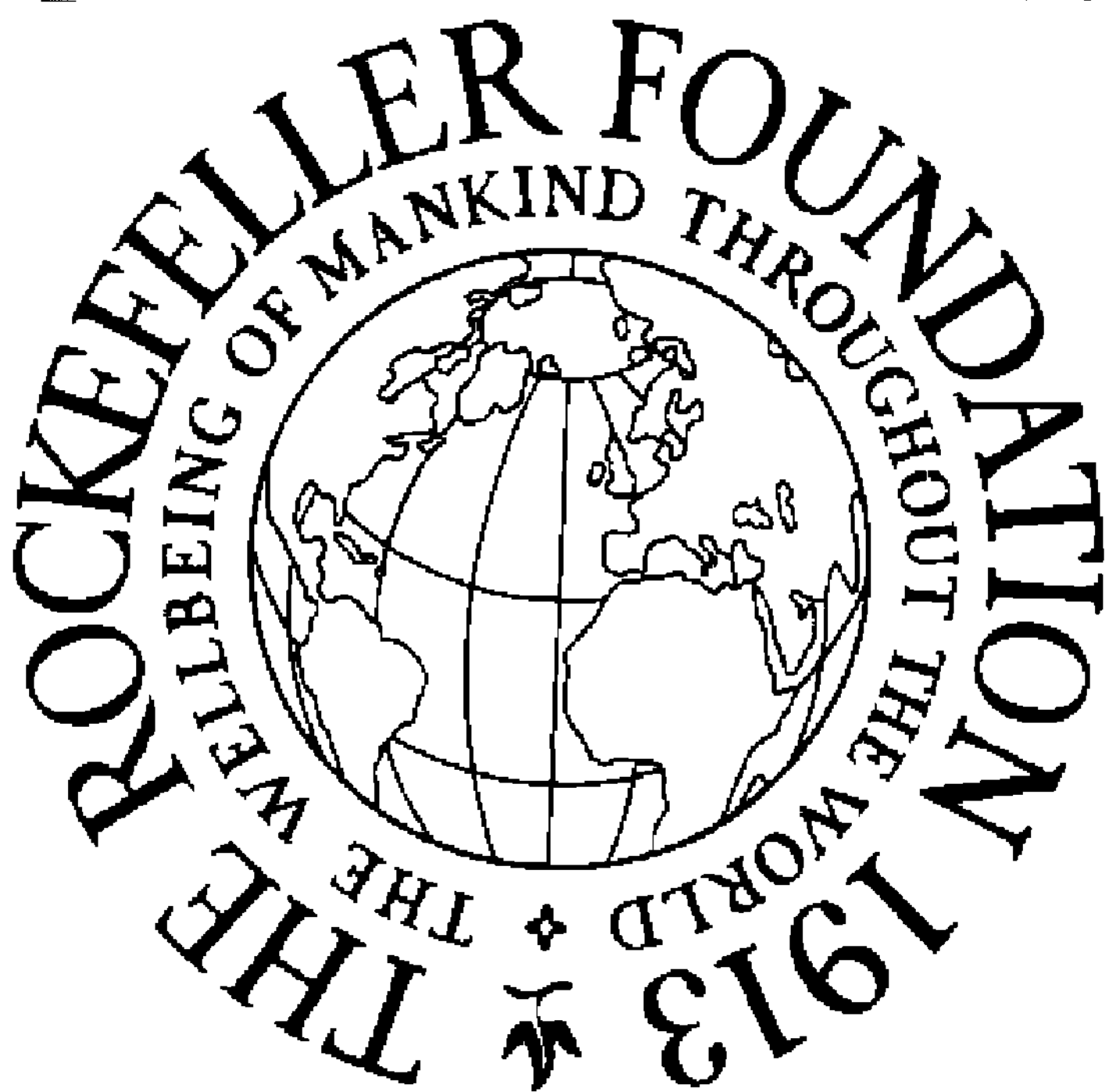
These include:

- 12 grants under a competitive program encouraging museums to explore innovative ways of presenting non-Western and American minority cultures, including funds in support of “Facing History: The Black Image in American Art 1710–1940,” a major exhibition scheduled at the Corcoran Gallery of Art in Washington and then at the Brooklyn Museum in New York;
- 11 grants, with NEA co-funding, enabling regional multicultural arts organizations to foster and assist interdisciplinary collaborations of artists in dance, music, theater, and the visual arts, such as the collecting of stories, songs, and other music from an 800-mile, historic trek of the Cherokee Indians known as the “Trail of Tears”;
- 16 first-round grants, co-funded with the AT&T Foundation, to performance organizations, including New York’s Lincoln Center, the Toledo Symphony, and Minneapolis’ Walker Arts Center, to underwrite residencies for 18 jazz composers which, in most instances, will conclude with a performance of the composers’ commissioned works;

- 20 grants awarded under the Multi-Arts Production Fund in support of performing arts projects promoting the understanding of diverse cultural heritages, including, for example, a performance collaboration of 16 writers, storytellers, composers, and choreographers in the San Francisco Bay area.

And six new sites were added for Humanities Fellowships, bringing the number to 27, to extend international and intercultural scholarship: the Program in African Cultural Studies, at Cornell University; the Women’s Studies Program, at Hunter College of the City University of New York; the Asian American Studies Center, at the University of California, Los Angeles; the Center for East Asian Studies, at the University of Chicago, in affiliation with the Center for Psychosocial Studies; and the Institute for the Study of Literature, Religion, and Society in the Contemporary Middle East and the Institute of Latin American Studies, both at the University of Texas at Austin.

The Ride for Liberty—The Fugitive Slaves is one of 120 works in an exhibition supported by the Foundation and titled Facing History: The Black Image in American Art 1710–1940. The exhibition unflinchingly reflects curator Guy C. McElroy’s thesis: “The ways that America’s leading artists have portrayed the African-American—as slave or freedman, servant or member of the middle class, minstrel performer or wartime hero, ridiculous stereotype or forceful leader—form an index that reveals how the majority of American society felt about its black neighbors.” The exhibition was organized by The Corcoran Gallery of Art in Washington, D.C., and is scheduled for subsequent display in 1990 at the Brooklyn Museum.



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New Program Highlights

Equal Opportunity

Most of the projects receiving Equal Opportunity grants for the first time in 1989 are to build new understanding of persistent urban poverty in the United States. This knowledge is sought to guide the Foundation and others working to prevent or reduce the conditions that give rise to this most severe form of poverty, which disproportionately affects minorities. Such knowledge is vital to the Foundation's Community Planning and Action program with projects under way in Boston, Cleveland, Denver, Oakland, San Antonio, and Washington, D.C.

Emphasis was given this year to the Hispanic community, which will become the largest minority group in the United States by the end of the 1990s. In addition to increasing the relatively small information base on the Hispanic population overall, special attention was given to identifying and understanding the

The Urban Strategies Council in Oakland, California, is collaborating with the University-Oakland Metropolitan Forum in a targeted effort to improve the local public schools. The council's work is supported within the Foundation's program to mobilize the public and private sectors in six cities to understand and overcome conditions that lead to persistent urban poverty

policy-relevant differences among Mexican-American, Puerto Rican, and other Hispanic populations in the United States with Latin American roots.

One grant seeking better information about poverty within the various Hispanic populations is enabling the Panel Study of Income Dynamics to expand its ongoing longitudinal study of U.S. families. An oversampling of Hispanic households underwritten with the Foundation's funds, together with an existing oversampling of black households, will yield better comparative statistics for analysts interested in the dynamics of poverty and welfare dependency.

Another grant is helping the Tomas Rivera Center of Claremont, California, expand into Texas its policy analysis and information work on the needs of Hispanics. Operating from an office at Trinity University in San Antonio, Center staff will concentrate attention and policy recommendations in five priority areas: human resource development; employment, technology, and labor market changes; income-related support programs; health and employment; and the impact of demographic trends.

The California Conservation Corps (CCC) enrolls more than 2,000 young men and women, most of whom are school dropouts and other disadvantaged youths from minority communities troubled with

underclass pressures. This residential program aims to instill new attitudes regarding civic responsibility and self-worth while providing communities with the labor needed to accomplish physical development projects. Still lacking, however, is long-term evidence that this and other such programs—costing around \$20,000 per training slot per year—are worth the investment for society and participants alike.

A short-term assessment of the CCC shows mixed results. For example, attitudes, employment, and earnings were unaffected in white youths; Hispanics experienced negative effects on employment and earnings; and earnings were improved for black and white females who stayed in the program at least four months. However, evaluations of the federal Job Corps indicate that long-term follow-up studies are essential for a definitive evaluation of this type of program.

This need, coupled with increasing interest across the country in CCC-type programs, prompted the Foundation to underwrite a five-year follow-up study of the CCC by Public/Private Ventures, a Philadelphia nonprofit organization that conducted the short-term assessment. In addition to information about attitudes, employment, and earnings, the new study will also gather information about welfare dependency, education, criminal behavior, and substance abuse.

The Washington-based Center on Budget and Policy Priorities

received funds in support of its analyses of the effects of federal, state, and local government budgets on low-income individuals and families. The value of such work has been amply demonstrated. Its recommended changes stemming from analyses of the earned income tax credit, for example, were incorporated in the Tax Reform Act of 1986, adding \$1 billion a year in tax relief for low-income working families. And a subsequent study requested by the Foundation-supported community project in Washington resulted in provisions in the 1988 Hunger Prevention Act against counting the earned income tax credit in calculating food stamp benefits.

To increase the cadre of social scientists whose career commitments center on the study of persistent poverty and the underclass, the Foundation has been underwriting an extensive fellowship and training program through the Social Science Research Council. This year, two new projects were added. The University of Maryland's Afro-American Studies Program, over the next three years, will provide advanced training in statistical analysis and social policy for six junior faculty and advanced doctoral candidates from historically black

colleges. An additional six postdoctoral minority scholars over three years will participate in multidisciplinary research on persistent poverty and the underclass at the University of Michigan School of Social Work and Public Policy, where the Panel Study of Income Dynamics, described above, is conducted.

The six community planning and action projects supported by the Foundation marked progress on a number of fronts in helping to mobilize the public and private sectors in their metropolitan areas to understand and attack conditions contributing to persistent poverty. Examples include:

- The Boston project's first public report offered local policymakers the most current analysis of poverty in the area until the next U.S. Census data are available in 1992. Among these findings: 75 percent of the city's Hispanic children, 33 percent of its black children, and 20 percent of its white children are growing up in poverty; the poor are isolated from agencies designed to serve them—75 percent of the people interviewed were unable to name a neighborhood or community group; and with 44 percent of the able-bodied poor working at the time of the interview, underemployment is as much a problem as unemployment—simply having a job is not enough to escape poverty.

- Changes in the local early childhood education programs recommended by the Oakland project have resulted in a \$2-million savings as well as in the retention and expansion of services for 1,500 children from the city's poorest families
- Two of Denver's poorest neighborhoods have been targeted for intensive effort by the project in that city, and school officials are reviewing the recommendations in "Improving Elementary Education for Low-Income Students," the latest in a series of studies evaluating conditions and public services in these neighborhoods.

- In Washington, a number of that project's recommendations for improving the public schools have been implemented from a report—"Our Children, Our Future"—including a decision to adopt comprehensive reform using the Comer approach described on page 12.

Approximately 1,000 Community Development Corporations (CDCs) are directed by local residents, business people, and other community leaders within poor neighborhoods across the United States. They stand out among private organizations for their tenacity, survival, and accomplishments within such neighborhoods, building leadership, capital,

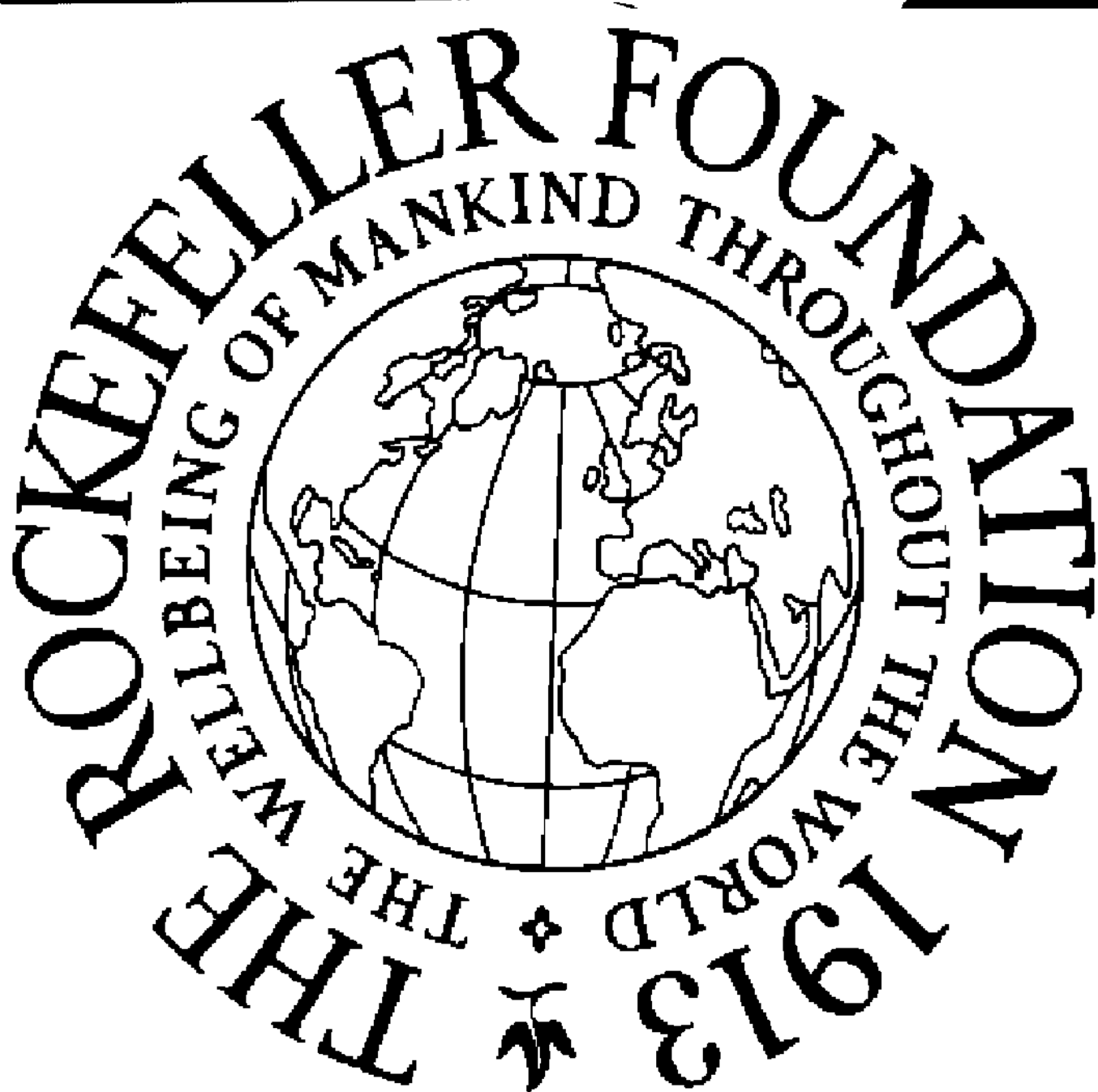


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and power in communities marked by an absence of all three.

In 1989, the Foundation continued its support for the CDC movement by making a short-term \$5-million loan and a grant to the Local Initiatives Support Corporation (LISC), which aids CDCs across the country with low-rate loans, loan guarantees, grants, and technical assistance. A grant was also made in support of the Enterprise Foundation, which, similarly to LISC, provides assistance for CDCs. Unlike LISC, it also works with a variety of other nonprofit groups in poor neighborhoods. It is best known for combining housing development projects in extremely poor neighborhoods with strategies to help the residents cope with unemployment, drug use, health needs, and other conditions breeding dependency.

Most of the new research on persistent urban poverty receiving Foundation support this year is focused on the country's Hispanic population. The incidence of poverty in this population, which will become the largest minority group in the United States by the end of the decade, is increasing more rapidly than in any other ethnic group. The studies seek new information needed to guide efforts to prevent or reduce conditions that give rise to the most severe patterns of poverty in the nation's cities.



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Other Interests and Initiatives

Three major grants were made this year from the Special Interests and Explorations fund for purposes that do not fall within the Foundation's other program areas.

One, to Editorial Projects in Education, is helping to underwrite the start-up costs of the monthly newsmagazine, *Teacher*. Seeking to reinforce the status of career teachers and encourage their involvement in school improvement, *Teacher* covers the critical issues in American education; profiles outstanding teachers; offers information about grants, meetings, new educational materials, and career opportunities; reports on new ideas in training, pedagogy, and the various academic disciplines; provides data concerning salaries, certification requirements, pension plans, and career ladders; summarizes professional readings; and reviews books of special interest to teachers.

For the past decade, school reform and welfare reform have been proceeding on separate tracks. Now, under the Family Support Act of 1988, the country's education and income-support systems must forge new relationships in providing the mandated education and training programs for welfare recipients. A grant to the Manpower Demonstration Research Corporation is underwriting an assessment of how school systems in several key states are responding to this challenge, information that can guide federal, state, and local officials in meeting their new responsibilities.

A grant to Rutgers, the State University of New Jersey, is assisting

implementation of the University's plans for an undergraduate, mandatory course in civic education and community service. In this regard, the University is taking a leadership position, albeit controversial, for making the idea and practice of community service a part of the academic core of a liberal education rather than relegating it to the margin.

The Bellagio Study and Conference Center

The Foundation's Bellagio Study and Conference Center of Lake Como, Italy, was host this year to 24 conferences with a total of 516 participants from 49 countries. These conferences ranged from "Educational Initiatives for Black South Africans" to "Potentials of Biotechnology for Improving Grain Yield of Rice under Water-limited Conditions," and from "International Nursing Development for the 21st Century" to "Conventional Arms Control in Europe." A total of 142 scholars and artists also were in residence to work on their own month-long projects. These included several novels; books on radical fundamentalism in Islam, effective care for the newborn infant, and a wide variety of other non-fiction topics; several poetry collections; a series of 23 drawings based on Greek and Roman mythology as ideas for sculpture; and collaboration on a large operatic work by a dancer, a choreographer,

Residencies at the Foundation's Bellagio Study and Conference Center in Italy offer scholars and artists a month of quiet for reflection and work on their individual projects.



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a composer and a theater director-writer.

In addition, the Foundation's Board of Trustees met in Bellagio in September just prior to a trip to Kenya and Uganda to visit Foundation-assisted programs

A Foundation staff committee is responsible for reviewing applications for conferences and residencies, which are then selected 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 available by writing to the Foundation.

Two dozen week-long conferences were held this year at the Bellagio Study and Conference Center. The 21 biologists at this one—on "Symbiosis as the Source of Evolutionary Innovation"—were drawn from universities, institutes, and national academies in nine countries

1989 Grants and Fellowships

**International Program to Support Science-Based
Development 42****Agricultural Sciences Grants 42****Health Sciences Grants 48****Population Sciences Grants 54****Global Environmental Program Grants 60****Special Programming Grants 61****Fellowships 67**

Arts and Humanities Grants 71

Equal Opportunity Grants 80

School Reform Grants 85

International Security Grants 85

Other Interests and Initiatives Grants 86

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.

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—joined this year by a new 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

The agricultural sciences division supports work using biotechnology to improve crops that are developing-country staples, improving family food production systems in Africa, and enhancing international collaboration in agricultural research.

Genetically Improving Developing-Country Cereals

Asian and Pacific Development Centre, Kuala Lumpur, Malaysia <i>For a regional seminar on "Public Policy Implications of Biotechnology for Asian Agriculture"</i>	\$10,000	Fudan University, Shanghai, China <i>In support of an international symposium entitled "New Frontiers of Genetics"</i>	\$20,000
Centro Internacional de Mejoramiento de Maiz y Trigo (CIMMYT), Mexico City, Mexico <i>For a preliminary analysis of the impact of technological change on wheat in Pakistan, to be conducted in collaboration with the Development Research and Management Services, Islamabad, Pakistan</i>	\$12,500	Basic and Applied Rice Biotechnology <i>[1989 - \$3,000,000, in addition to remaining funds from prior year appropriations]</i> <i>To support research and training at advanced laboratories and international agricultural research centers participating in the Foundation's program on rice biotechnology</i>	
Cornell University, Ithaca, New York <i>Toward the costs of a workshop entitled "Equitable Patent Protection for the Developing World"</i>	\$10,800	Carlsberg Research Center, Copenhagen, Denmark <i>Toward the costs of research on genes for barley antifungal proteins that might be introduced into rice as a source of fungal resistance</i>	\$20,000
Development of an International Network for Biotechnology Research on Cassava <i>[1989 - \$1,000,000]</i> <i>To support the development of an international cassava biotechnology research network with initial emphasis on producing cassava lines resistant to virus pathogens</i>		Centro Internacional de Agricultura Tropical (CIAT), Cali, Colombia <i>For research on anther culture in rice breeding</i>	\$180,000
University of Calgary, Canada <i>For research on the use of genetic engineering to inhibit biosyntheses of cyanogenic glycosides in crop species such as flax and cassava</i>	\$4,500	Commonwealth Scientific, Industrial, and Research Organization, Division of Plant Industry, Canberra, Australia <i>Toward the costs of research on synthetic genes for resistance to the ragged stunt virus of rice</i>	\$372,000
Washington State University, Pullman <i>For research on a genetic transformation system by which proteinase inhibitor genes for insect resistance and protein quality can be introduced into cassava</i>	\$217,000	Foundation-administered projects <i>Administrative costs associated with implementing the Foundation's program on improving developing-country cereals</i>	\$50,000
		Bellagio Conference on "Potentials of Biotechnology to Increase Grain Yields of Rice under Water Stress Conditions"	\$50,000

Science Based Development continued

International Rice Research Institute (IRRI), Manila, Philippines <i>For projects on rice biotechnology</i>	\$592,600	Genetic Resources Communications Systems Inc , Washington, D C <i>In support of international expansion of the journal Diversity</i>	\$100,000
Iowa State University, Ames <i>For research on the regulation of carotenoid synthesis in cereals</i>	\$81,320	Institute of Fundamental Studies, Kandy, Sri Lanka <i>For an international symposium on rice production on acid soils of the tropics</i>	\$4,000
Kansas State University, Manhattan <i>For research on the inhibitors of digestive enzymes of insect pests of rice</i>	\$126,000	International Rice Research Institute (IRRI), Manila, Philippines <i>For a workshop on "Methodology for Rice-soil Physical Measurements Relevant to Sustainable Crop Production in Resource poor Regions," to be conducted jointly with the Indian Council of Agricultural Research</i>	\$12,000
<i>For research on genes responsible for resistance to the sheath blight pathogen of rice</i>	\$105,000		
<i>For research on the isolation and characterization of virulence genes from <i>Xanthomonas campestris</i> pv <i>oryzae</i></i>	\$150,000		
Purdue University, West Lafayette, Indiana <i>For research on indexing genotypic diversity in the rice blast fungus by DNA fingerprinting analysis</i>	\$99,500	Keystone Center for Continuing Education, Colorado <i>For the Keystone International Dialogue Series on Plant Genetic Resources Phase II</i>	\$50,000
<i>For research on the regeneration of rice plants from callus, cells and protoplasts</i>	\$496,200	North Carolina State University, Raleigh <i>Toward the development of ecologically sound approaches for the design and deployment of bioengineered crop varieties that produce insecticidal proteins</i>	\$96,900
State University of Ghent, Belgium <i>For research to enhance stress tolerance in rice via transformation and tissue specific gene expression</i>	\$250,000	Plant Biotechnology Policy in Developing Countries [1989 \$400,000, in addition to remaining funds from prior year appropriations] <i>To assist developing countries in determining priorities for their investments in agricultural biotechnology</i>	
University of Missouri Columbia <i>For research on cytokinins and the control of rice endosperm development for increased yield potential</i>	\$136,370	International Rice Research Institute (IRRI), Manila, Philippines <i>Toward the costs of coordinating a multicountry study on the differential effects of modern rice technology</i>	\$30,000
University of Nottingham, England <i>Toward the costs of research on the culture of rice protoplasts and transgenic plant production</i>	\$240,000	<i>For a cooperative study with Montana State University on environmental costs of agricultural chemical use in Southeast Asian rice production</i>	\$10,000
University of Wisconsin Madison <i>Toward the costs of a molecular and genetic analysis of mechanisms controlling pathogen virulence in <i>Magnaporthe grisea</i></i>	\$150,000	International Service for National Agricultural Research (ISNAR), The Hague, Netherlands <i>For research on the Chinese agricultural research system</i>	\$98,750
Washington University, St. Louis, Missouri <i>For research on engineering rice plants resistant to rice yellow mottle virus</i>	\$90,030	Stanford University, California <i>For use by Prof John H Barton for an analysis of the regulatory and intellectual property issues significant to developing countries' plant biotechnology research</i>	\$8,000
Genetic Map of Rice [1988 \$1,000,000] <i>To support the further development of rice molecular genetic maps and markers, and their use in rice breeding and rice genetic engineering</i>		Purdue Research Foundation, West Lafayette, Indiana <i>For research at Purdue University on biotechnological approaches to controlling Striga, a parasitic weed that constrains cereal production in Africa</i>	\$69,200
Cornell University, Ithaca, New York <i>For research on the genetic and physical mapping of the rice genome</i>	\$592,270		
University of Georgia Research Foundation, Athens <i>Toward the costs of transferring technology for rice genetic mapping to developing countries</i>	\$9,850		
University of Pennsylvania, Philadelphia <i>For research on the development of large DNA cloning methods for rice</i>	\$130,000		

Lu Qingshan, Sorghum Research Institute, Shenyang, Liaoning Province, China <i>To continue sorghum research at Texas A&M University</i>	\$3,000	Transfer of Rice Biotechnology <i>[1989 \$2,000,000, in addition to remaining funds from prior year appropriations] To help developing countries establish the scientific capacity and research programs necessary to utilize and advance rice biotechnologies</i>	
Research on Priorities in Rice Biotechnology <i>[1986 \$225,000]</i>			
Foundation administered project <i>For research on priorities in rice biotechnology in East India</i>	\$20,400	Bangladesh Rice Research Institute, Dhaka <i>Toward the development of biotechnology for rice improvement in Bangladesh</i>	\$132,000
Resources Development Foundation, Washington, D C <i>Toward the costs of its international biotechnology program (Joint grant with Health Sciences and Special Programming, for a total of \$100,000)</i>	\$33,334	Central Research Institute for Food Crops, Ministry of Agriculture, Bogor, Indonesia <i>Toward the cost of strengthening its research program in rice biotechnology</i>	\$150,000
Studies on the Impact of Agricultural Technical Change <i>[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</i>		China National Center for Biotechnology Development, Beijing, China <i>In support of a comprehensive Chinese research network on rice biotechnology</i>	\$500,000
Development Research and Management Services (DRMS), Islamabad, Pakistan <i>Toward the costs of a project to determine the impact of technological changes in wheat production in Pakistan</i>	\$122,000	China National Rice Research Institute, Hangzhou <i>For research leading to the application of novel strategies in rice improvement in China</i>	\$100,000
Gadjah Mada University, Yogyakarta, Indonesia <i>For a study of the differential impact of technology changes across environments of rice farming in Lampung, Indonesia</i>	\$8,250	Chulalongkorn University, Bangkok, Thailand <i>For research on the role of lectin in enhancing associated nitrogen fixation in rice</i>	\$20,000
Scott Rozelle, Cornell University, Ithaca, New York <i>To attend a workshop for participants in a multicountry study on the differential impacts of modern rice technology, to be held in Bangladesh and Nepal, March 27–April 7, 1989</i>	\$3,000	Fang Rong Xiang, Institute of Microbiology, Beijing, China <i>For research at the Institute of Microbiology on resistance to yellow stunt virus of rice, conducted in collaboration with Nam-Hat Chua at Rockefeller University</i>	\$10,000
University of Minnesota, Minneapolis <i>Toward the costs of a study of regional productivity growth in Chinese agriculture</i>	\$4,650	Foundation administered projects <i>For costs of the Third Annual Meeting of the Foundation's Program on Rice Biotechnology</i>	\$147,000
Texas A&M University, College Station <i>[1989 \$300,000] To develop a genetic map of sorghum and train developing country scientists in its use for sorghum improvement</i>	\$300,000	<i>For lecture series and laboratory training course designed to transfer RFLP technology to rice-breeding programs in developing countries</i>	\$75,000
Robert Townsend, Department of Economics, University of Chicago, Illinois <i>For research on the adoption and impact of high yielding rice varieties in northern Thailand</i>	\$15,000	<i>For a laboratory training course on protoplast regeneration of <i>indica</i> rice</i>	\$32,000
		Kasetsart University, Bangkok, Thailand <i>Toward the costs of research on the genetic transformation of rice for ragged stunt virus resistance</i>	\$90,000
		<i>For research on rice varietal improvement for higher protein content through direct gene transfer</i>	\$50,000
		<i>For research on wide hybridization for rice improvement</i>	\$40,000
		<i>For research on the insecticidal activity of local strains of <i>Bacillus thuringiensis</i> against rice stemborers</i>	\$59,200

Science Based Development continued

Li Xiang hui, Institute of Genetics, Beijing, China <i>Visiting Scientist Research Fellowship in Rice Biotechnology to study protoplast uptake of chimeric genes and regeneration in the genetic transformation of rice plants at Washington State University</i>	\$7,900	University of Hyderabad, India <i>For research on genetic and molecular biology approaches to the identification and isolation of transposable elements in rice</i>	\$100,000
Mahidol University, Bangkok, Thailand <i>For research on the identification and characterization of genes involved in disease resistance in rice</i>	\$60,000	University of the Philippines at Los Banos <i>Toward the costs of the Philippine Research Program on Rice Biotechnology</i>	\$150,000
<i>For research on RFLP-facilitated mapping of genetic loci responsible for photoperiod sensitivity and fragrance in rice</i>	\$60,000	Zhu Lihuang, Institute of Genetics, Academia Sinica, Beijing, China <i>In support of research at the Institute of Genetics on the further development of the RFLP genetic map of rice, to be conducted in collaboration with Steven Tanksley at Cornell University</i>	\$15,000
Malaysian Agricultural Research and Development Institute, Kuala Lumpur, Malaysia <i>For research on the genetic manipulation of <i>indica</i> rice using biotechnology</i>	\$150,000	United Nations Industrial Development Organization (UNIDO), Geneva, Switzerland <i>For use by its International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi, India, and toward the costs of a conference on Molecular Approaches to Plant Stress</i>	\$20,000
M S University of Baroda, India <i>Toward the cost of research on the genetic engineering of rice with emphasis on resistance to the blast fungus, <i>Pyricularia</i></i>	\$111,000	University of California-Berkeley <i>For research on the introduction of the maize transposon Ds into rice</i>	\$67,400
National Center for Genetic Engineering and Biotechnology of Thailand, Bangkok <i>To provide leadership coordination and information services for a multi-institutional national program on rice biotechnology</i>	\$30,000	University of Minnesota, Minneapolis <i>Toward the costs of a project on RFLP mapping in the plant genus <i>Vigna</i> for application to biotechnology in the developing world</i>	\$100,000
Research Laboratory for Agricultural Biotechnology and Biochemistry, Kathmandu, Nepal <i>For research on the development of anther culture techniques to increase the efficiency of rice breeding</i>	\$20,000	U Khin Win, Agricultural Corporation of the Ministry of Agriculture of Burma, Rangoon <i>For further development of strategies for increasing rice production</i>	\$2,500
<i>To enable one of its staff members to attend a three month training program in rice anther culture at the International Rice Research Institute, Philippines</i>	\$3,840	Improving Family Food Production Systems in Africa	
Shanghai Academy of Agricultural Sciences, China <i>In support of research in rice anther culture breeding</i>	\$21,000	Anne Conroy, Wye College, University of London, England <i>For a study on the supply, adoption, and utilization of purchase inputs for maize production in Malawi</i>	\$68,700
S K Sen, Bose Institute, Calcutta, India <i>To develop collaborative research projects with U S scientists participating in the Foundation's International Rice Biotechnology Program</i>	\$2,000	Benjamin Nyika Dube, University of Zimbabwe, Harare <i>In support of a research project on biological control of plant-parasitic nematodes</i>	\$4,580
SPIC Science Foundation, Madras, India <i>Toward the costs of research on the characterization of the mitochondrial genome in rice and its role in the expression of cytoplasmic male sterility</i>	\$35,000	Foundation-administered project <i>Foundation-sponsored study on the postharvest aspects of food production in Africa as a step in developing an analytical framework for evaluating the dynamics of African agricultural systems</i>	\$62,000
Tata Institute of Fundamental Research, Bombay, India <i>For equipment and supplies for a laboratory of its Molecular Biology Unit</i>	\$6,000	Louise Fresco, Wageningen Agricultural University, Netherlands <i>For preparing a literature review and developing a research agenda on the cassava economy in Africa</i>	\$27,000
University of Dhaka, Bangladesh <i>For research on the genetic manipulation of Bangladeshi rice varieties to increase their tolerance of salt</i>	\$63,550		

Science-Based Development continued

Trevor Richard Hedges, University of Zimbabwe, Harare <i>To study techniques for rapid detection and diagnosis of plant diseases</i>	\$3,000	Malawi Ministry of Agriculture <i>For use by the Department of Agricultural Research toward 1988–89 local research costs, travel, and training for technicians</i>	\$40,000
International Center for Maize and Wheat Improvement (CIMMYT), Mexico City, Mexico [1989 - \$300,000] <i>To help maize researchers in Malawi take into account the economic forces affecting production of the crop as they set research priorities for maize improvement</i>	\$300,000	John Scott-Wendt, Lubbock, Texas <i>To participate in the research program as a Foundation postdoctoral fellow in agronomy</i>	\$101,660
International Centre for Insect Physiology and Ecology (ICIPE), Nairobi, Kenya [1989 - \$300,000, in addition to remaining funds from prior year appropriations] <i>To continue support for its Social Science Interface Research Unit</i>	\$300,000	Malawi Ministry of Agriculture <i>For the soya component of its Food Legume Project</i>	\$39,710
International Council for Research in Agroforestry (ICRAF), Nairobi, Kenya [1989 - \$700,000] <i>To strengthen ICRAF's capacity for conducting, in collaboration with national scientists of Kenya and Malawi, farm evaluation of agroforestry practices that can help offset erosion and fertility exhaustion of soils in the two countries</i>	\$700,000	William A. Masters, Stanford, California <i>To complete research on the comparative advantage in the major substitute cropping systems of Zimbabwe</i>	\$25,000
International Fertilizer Development Center (IFDC), Muscle Shoals, Alabama <i>For its Soil Fertility Restoration project in Africa</i>	\$60,000	Plant Pathology Society of Kenya, Nairobi <i>Toward the costs of a conference, "Plant Health for Increased Crop Production and a Healthy Nation"</i>	\$2,000
International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria <i>In support of a training course in Mozambique on root and tuber crops</i>	\$2,500	Social Science Research Council, New York, New York [1989 - \$400,000, in addition to remaining funds from prior year appropriations] <i>To advance understanding of agricultural performance in Africa through collaborative interdisciplinary research between African and U.S. scholars</i>	\$400,000
International Union of Biological Sciences, Paris, France [1989 - \$500,000] <i>To stabilize the operation of its Tropical Soil Biology and Fertility (TSBF) program activities in Africa, and expand research under the new TSBF African network</i>	\$500,000	Soils Research in Africa [1989 - \$200,000, in addition to remaining funds from prior year appropriations] <i>To strengthen international soils research efforts directed toward sustainable crop production systems for Africa</i>	
Kenya Agricultural Research Institute, Nairobi <i>Toward the costs of a national conference on plant and animal biotechnology</i>	\$15,000	Tobias Takavarasha, University of Zimbabwe, Harare <i>For dissertation research on agricultural pricing policy in Zimbabwe</i>	\$5,000
Maize Research in Malawi [1988 - \$625,000] <i>To strengthen the capacity of Malawi to design and conduct a maize research program that addresses the needs of smallholders</i>		University of Illinois, Urbana-Champaign <i>To be used by the International Soybean Program (INTSOY) toward the costs of an international conference on soybean processing and utilization</i>	\$12,000
Foundation-administered projects <i>Consultants' fees and travel, materials, equipment, and supplies</i>	\$170,000	University of Malawi, Zomba <i>For use by the Bunda College of Agriculture in research on integrated management of maize stalkborers, major pests of maize in Malawi</i>	\$73,000
Richard Bryce Jones, Exmouth, England <i>To participate in the research program as a Foundation postdoctoral fellow in agronomy</i>	\$107,610	University of Nairobi, Kenya <i>In support of research in its Department of Agricultural Economics and Botany</i>	\$11,000
		University of Zimbabwe, Harare <i>For a three-year study on constraints to draught animal power in Zimbabwe</i>	\$73,250
		<i>Toward the costs of an international workshop on the status of plant science in Southern Africa</i>	\$8,000

University of Zimbabwe, Harare [1989 \$800,000] To enhance the teaching and research capacity of the university's faculty of agriculture		Indian Environmental Society, New Delhi, India Toward the costs of the Third International Conference on Environmental Education	\$15,000
Winrock International Institute for Agricultural Development, Morrilton, Arkansas To explore opportunities for strengthening the training in agricultural research received by graduate students in sub-Saharan Africa	\$20,000	International Council for Research in Agroforestry (ICRAF), Nairobi, Kenya Toward the costs of an external program and management review	\$15,000
Enhancing International Agricultural Research Collaboration			
American Agricultural Economics Association, Ames, Iowa For the participation by Chinese and Taiwanese agricultural economists at a Chinese rural development symposium	\$12,000	International Food Policy Research Institute (IFPRI), Washington, D C For a joint study with the International Center for Tropical Agriculture, Colombia, on the socioeconomic and environmental factors influencing the development and preservation of the humid tropics	\$58,900
Asian Institute of Technology, Bangkok, Thailand Toward the costs of the Secretariate organizing the 1990 Asian Farming Systems Research/Extension Symposium	\$10,000	International Irrigation Management Institute, Kandy, Sri Lanka Toward the costs of an external program and management review	\$25,000
Bangladesh Institute of Development Studies, Dhaka For development of its library	\$25,000	Oxford University, England For use by the Oxford Forestry Institute for research on incentive strategies for tree growing by small farmers in India and East Africa	\$73,500
Brown University, Providence, Rhode Island For use by its World Hunger program for the costs of an international conference on "Overcoming Hunger in the 1990s"	\$50,000	People's Government of Hainan Province, China Toward the costs of enlisting the assistance of Dr R M Lees in planning a coordinated program of environmental preservation and economic development on Hainan Island (Joint grant with Special Programming, for a total of \$94,000)	\$47,000
Cornell University, Ithaca, New York [1989 \$555,000] To identify the agricultural books and journals most important for developing-country libraries	\$555,000	Population Council, New York, New York Towards the costs of publishing, in languages other than English, selected issues of its publication <i>SEEDS</i> , which documents income-generating activities of women in developing countries (Joint grant with Health Sciences and Population Sciences, for a total of \$100,000)	\$30,000
Toward publication of a journal by the Chinese Association of Agricultural Students and Scholars	\$5,000	Third World Academy of Sciences, Trieste, Italy Toward the travel and meeting costs of a workshop for policymakers on "Environment and Development—The Science and Technology of the Bruntland Commission's Report"	\$10,000
Environmental Research Fellowships in Agriculture [1989 - \$700,000] To initiate a fellowship program offering environmental scientists the opportunity to take part in the multidisciplinary research programs of the international agricultural research centers (Fellowships to be awarded in 1990)		United Nations Educational, Scientific and Cultural Organization (UNESCO), Paris, France Toward the costs of a workshop on improving children's primary school performance through improving their nutrition and health	\$25,000
Food and Agricultural Organization of the United Nations, Rome, Italy [1989 - \$124,000] To improve the technical skills of officials charged with regulating pesticide use in developing countries	\$124,000	University of Minnesota, St. Paul For a project, "Agriculture and Rural Development Issues for the Twenty-first Century," to be conducted by its Center for International Food and Agriculture Policy	\$68,850
Gestion de Ecosistemas Asociacion Civil, Mexico City, Mexico For a project concerned with maintenance of biodiversity in Mexico	\$40,000	University of Wisconsin-Madison Toward the costs of a study of the role of U S public universities in strengthening human capital resources for development in the Third World	\$6,050
Henry Kanjobe Mwandemere, Bunda College of Agriculture, University of Malawi, Zomba For research on the management of tropical soils	\$29,420		

World Bank, Washington, D C <i>For use by the Consultative Group for International Agricultural Research (CGIAR) in conducting evaluative reviews of centers not associated with the CGIAR system</i>	\$50,000	Wye College, England [1989 - \$275,000] <i>To create a self-supporting system that provides distance learning in the basics of agricultural development analysis and planning for developing-country professionals</i>	\$275,000
World Development Productions, Cambridge, Massachusetts [1989 - \$200,000] <i>To improve public understanding of the world hunger problem and what has been learned about making international assistance more effective</i>	\$200,000	Fellowships	
World Resources Institute, Washington, D C [1989 - \$310,000] <i>To examine the environmental implications of present and alternative agricultural policies in selected developing countries</i>	\$310,000	Biotechnology Career Fellowships <i>(Jointly funded with Health Sciences and Population Sciences, for a total of \$1,100,000)</i>	\$166,600
		Social Science Research Fellowships in Agriculture <i>[1989 \$750,000, in addition to remaining funds from prior year appropriations]</i>	\$644,090

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 Capability for Population-Based Health Care		Cornell University, Ithaca, New York <i>Toward the costs of the China Health Project</i>	\$25,000
Action in International Medicine, London, England <i>Toward the costs of its April 1989 conference on world community health infrastructure</i>	\$25,000	Disease Control in Third-World Households [1989 - \$1,000,000, in addition to remaining funds from prior year appropriations] <i>To continue support for research and training in community based approaches to control of <i>Aedes aegypti</i>, the urban mosquito vector of dengue fever</i>	
Association of Canadian Medical Colleges, Montreal, Canada <i>Toward the costs of the 1989 Panamerican Conference on Medical Education, held in Montreal, May 14-17, 1989</i>	\$20,000	Foundation-administered project <i>Costs of an <i>Aedes aegypti</i> workshop for representatives of the health ministries of Indonesia, Malaysia, Taiwan, Thailand, and Vietnam</i>	\$20,000
Centro Brasileiro de Analise e Planejamento (CEBRAP), São Paulo, Brazil <i>Toward support of a study on the Foundation's public health and medical work in Brazil during the period 1915-1940</i>	\$4,580	Emory University, Atlanta, Georgia <i>Toward terminal support for its Public Health Fellows Summer Program for black and other minority college students (Joint grant with Equal Opportunity, for a total of \$60,000)</i>	\$30,000
Columbia University, New York, New York <i>For a study to evaluate the impact of community health programs in medical schools in developing countries</i>	\$30,000	Foundation-administered project <i>Completion of 1988 microfiche editions being made available to four medical school libraries in Indonesia, Egypt, Mexico, and Colombia under the Foundation's Selected Microform Libraries for Medical Schools Project</i>	\$17,500
<i>To enable Dr William Moss, Associate in Pediatrics, to participate in a collaborative effort between the pediatrics departments of Addis Ababa University, Ethiopia, and Columbia's College of Physicians and Surgeons</i>	\$22,000	Harvard University, Cambridge, Massachusetts <i>Toward the costs of a Takemi Fellowship for Dr Rukarangra Wa Nkera</i>	\$18,000

Science Based Development continued

For continued support of a collaborative and exchange program between the Harvard Medical School's Department of Social Medicine and Health Policy and the Chinese Ministry of Public Welfare on the Chinese psychiatric care system	\$44,100	Supplemental funding toward the costs of the seventh annual meeting of INCLLEN, held in Goa, India, January 22-29, 1989	\$40,000
Toward support of a project entitled "Strengthening and Replicating New Programs in International Health"	\$93,500	Toward the costs of the eighth annual meeting of INCLLEN, to be held in Puebla, Mexico, January 20-26, 1990	\$200,000
<hr/> Health Research for Development Advocacy Phase [1989 - \$200,000] 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	Hospital General de Mexico, Mexico City Toward continuing support of its Clinical Epidemiology Unit	\$25,000
<hr/> Information Systems for Developing-Country Ministries of Health [1987 \$300,000] To provide five selected ministries of health in the developing world with immediate access to the core literature in public health, medicine, and related disciplines and to facilitate communication with the major sources of information in the developed world		Johns Hopkins University, Baltimore, Maryland For continued support of the Hopkins-INCLLEN collaborative project to strengthen the training of INCLLEN fellows and to provide long term support for research and teaching at the network's clinical epidemiology units	\$65,000
Foundation-administered project Toward the costs of dissemination of the information system package to selected ministries	\$225,000	Khon Kaen University, Thailand Toward continuing support of its Clinical Epidemiology Unit	\$25,000
<hr/> International Clinical Epidemiology Network (INCLLEN) [1989 - \$3,800,000, in addition to remaining funds from prior year appropriations] To continue support for (1) core activities of INCLLEN that link 27 clinical epidemiology units in 16 developing countries with five clinical epidemiology resource and training centers, and for (2) the training provided by the Clinical Epidemiology Resource and Training Center at McMaster University, Canada		Mahidol University, Bangkok, Thailand In support of research in clinical epidemiology	\$10,000
Chulalongkorn University, Bangkok, Thailand Toward continuing support of its Clinical Epidemiology Unit	\$25,000	Toward continuing support of its Clinical Epidemiology Unit	\$25,000
In support of research in clinical epidemiology	\$5,000	McMaster University, Hamilton, Canada Toward continuing support for the training of INCLLEN fellows by its Clinical Epidemiology Resource and Training Center	\$1,160,000
In support of a study of the effectiveness of aspirin in preventing the complications of rheumatic heart disease	\$10,000	For use by its Clinical Epidemiology Resource and Training Center to provide health economics training for INCLLEN fellows	\$135,000
Escola Paulista de Medicina, São Paulo, Brazil Toward continuing support of its Clinical Epidemiology Unit	\$25,000	Toward the costs of the INCLLEN mini-library of educational materials and an informative newsletter	\$60,000
Foundation-administered projects Meetings of the Clinical Epidemiology Resource and Training Center Advisory Committee	\$25,000	For support of its social sciences training component in the INCLLEN program	\$83,500
Costs of INCLLEN interchange activities	\$180,000	Ohio State University, Columbus In support of the establishment of a task force on pharmacoepidemiology and therapeutics, to be headed by Calvin Kunitz	\$80,000
Foundation-sponsored conference at Bellagio on "INCLLEN, Design for the Future"	\$30,000	Pontificia Universidad Javeriana, Bogotá, Colombia In support of research in clinical epidemiology	\$5,000
		Shanghai Medical University, China In support of research in clinical epidemiology	\$5,000
		Suez Canal University, Ismailia, Egypt In support of research in clinical epidemiology	\$5,000
		Toward continuing support of its Clinical Epidemiology Unit	\$25,000
		Universidad de la Frontera, Temuco, Chile Toward continuing support of its Clinical Epidemiology Unit	\$25,000

Science Based Development continued

University of Chile, Santiago Toward continuing support of its Clinical Epidemiology Unit	\$25,000	Toward the costs of a project entitled "University Partnerships in Essential Health Research"	\$50,000
University of Nairobi, Kenya In support of research in clinical epidemiology	\$10,000	Pan American Health Organization, Washington, D C Toward the costs of compiling and producing a book on health services research	\$20,000
For support of a workshop on clinical epidemiology held in Mombasa, Kenya July 1989	\$15,800	People to-People Foundation (Project Hope), Millwood, Virginia In support of an educational research program in pediatric critical care in Indonesia	\$50,000
University of Newcastle, Australia Toward support of its social sciences training component in the INCLEN program and start up research funds for four INCLEN fellows	\$120,000	Population Council, New York, New York Toward the costs of publishing, in languages other than English, selected issues of its publication <i>SEEDS</i> , which documents income generating activities of women in developing countries (Joint grant with Agricultural Sciences and Population Sciences, for a total of \$100,000)	\$30,000
Toward the costs of a multicenter study of stroke and ischemic heart disease	\$10,000	Queensland Institute of Medical Research, Brisbane, Australia To enable eight scientists from China, Thailand, Puerto Rico, Brazil, and the United States to participate in the Fifth Arbovirus Symposium, held in Brisbane, August 28–September 1, 1989	\$15,000
University of North Carolina at Chapel Hill In continued support of the social sciences training component offered INCLEN fellows at its Clinical Epidemiology Resource and Training Center	\$100,000	Brooke G Schoepf, Woods Hole, Massachusetts To continue a collaborative, multidisciplinary research project on the control of AIDS in Zaire	\$50,000
University of Pennsylvania, Philadelphia Toward the costs of the INCLEN executive office	\$125,000	Social Science and Medicine, Aberdeenshire, Scotland To permit the participation of about ten Third World scholars in the XI International Conference on Social Sciences and Medicine	\$20,000
In continued support of the social sciences training component offered INCLEN fellows at its Clinical Epidemiology Resource and Training Center	\$134,150	Task Force for Child Survival, Atlanta, Georgia Toward the costs of the Vaccine Development Project	\$63,500
To develop a core curriculum in pharmaco epidemiology for use by the network's Clinical Epidemiology Resource and Training Centers	\$20,000	University of California Berkeley For an oral history of Dr Harald Johnson, pioneer in the field of modern virology and former Foundation staff member	\$5,000
University of the Philippines, Manila Toward continuing support of its Clinical Epidemiology Unit	\$25,000	University of California San Francisco [1989 - \$950,000, in addition to remaining funds from prior year appropriations] To continue support for the Pew Charitable Trusts/ Rockefeller Foundation Program to mobilize academic teaching and research resources in North America for the implementation of equitable, cost effective approaches to maintaining and improving the health of the public	\$950,000
In support of research in clinical epidemiology	\$5,000	University of Hawaii, Honolulu To enable the local organizing committee of the American Society of Tropical Medicine and Hygiene to meet partial costs of the society's annual meeting, held in Honolulu, December 10–15, 1989	\$5,000
University of Toronto, Canada In support of its short course in Health Care Evaluation and Management Skills for developing world physicians and health administrators	\$85,000		
University of Zimbabwe, Harare In support of research in clinical epidemiology	\$5,000		
International Epidemiological Association (IEA), Edinburgh, Scotland Toward the travel costs of participants at regional meetings of the IEA in Thailand, China, and Zimbabwe in 1989	\$15,000		
Johns Hopkins University, Baltimore, Maryland For support of an August 1989 Bellagio Conference on "The Pathogenesis and Prevention of Acute Respiratory Illness in Children of Developing Countries"	\$30,000		
For support of clinical and epidemiological studies of the Guillain Barre Syndrome in China	\$22,410		
McMaster University, Hamilton, Canada In support of a study of electronic information systems for clinical use	\$40,000		

Science-Based Development continued

University of Leeds, England <i>Toward the costs of illustrations for a book entitled <u>Primary Mother Care</u></i>	\$8,000	Foundation administered project <i>For travel costs of invited speakers and experts attending the program's first annual meeting in Bangalore, India, December 4-8, 1989</i>	\$25,000
University of London, England <i>To cover the costs of travel and participation by three developing country scientists in a short course in medical anthropology, offered at the London School of Hygiene and Tropical Medicine, and preparation of a book based on the course</i>	\$33,990	Robert W Gwadz, National Institutes of Health, Bethesda, Maryland <i>Toward support of a research project entitled "<u>Malaria Control through Modification of Anopheles Gambiae Vector Populations</u>"</i>	\$99,400
University of North Carolina at Chapel Hill <i>In support of a conference on nurse-midwifery and women's organizations for health</i>	\$5,700	Harvard University, Cambridge, Massachusetts <i>Toward support of a research project entitled "<u>A China U S Partnership for Training and Research on Schistosomiasis and Filariasis</u>"</i>	\$84,000
University of Wisconsin Madison <i>For continued support of its project on epidemiological surveillance and health manpower training in the Lao People's Republic</i>	\$60,000	Medical Research Council, Banjul, Gambia <i>Toward support of a research and training project to develop a malaria vaccine, collaborative with the University of Stockholm and the Karolinska Institute in Sweden and the Malaria Studies Unit of Chulalongkorn University, Thailand</i>	\$30,000
World Health Organization, Geneva, Switzerland <i>Toward the costs of producing a film on the training of traditional midwives</i>	\$25,000	Universidade Federale Do Ceara, Fortaleza, Brazil <i>For a collaborative project with the University of Virginia to reduce the morbidity and mortality of enteric diseases in northeastern Brazil</i>	\$40,000
Preventing Developing-Country Diseases Through Vaccinology and Pharmacology			
Elsevier Publications, Cambridge, England <i>To provide subscriptions of <u>Parasitology Today</u> for scientists and institutions in the developing world</i>	\$11,115	University of California-San Francisco <i>Toward support of a research project entitled "<u>Drug Development and Resistance in Plasmodium</u>"</i>	\$56,600
Health Sciences for the Tropics <i>[1989 - \$1,900,000, in addition to remaining funds from prior year appropriations] To strengthen the capacity of developing countries to conduct research on their own major diseases through North South and South South linkages</i>		<i>Toward support of a research project entitled "<u>Protozoan Intestinal Diseases Biology and Epidemiology</u>"</i>	\$88,500
Brown University, Providence, Rhode Island <i>Toward support of a research project entitled "<u>A Multidisciplinary Approach to Philippine Schistosomiasis</u>"</i>	\$47,600	University of Stockholm, Sweden <i>Toward support of a research project entitled "<u>Study of the Epidemiology and Immune Responses to Potential Candidate Vaccine Antigens for P. falciparum Blood Stage Vaccine</u>"</i>	\$61,000
Case Western Reserve University, Cleveland, Ohio <i>Toward support of a research project entitled "<u>Epidemiology and Host parasite Relationship in Schistosomiasis Haematobia</u>"</i>	\$84,000	University of Uppsala, Sweden <i>Toward support of a research project entitled "<u>Analysis of Cloned Trypanosoma cruzi Proteins Aimed to the Identification of Parasite Immunogens</u>"</i>	\$45,500
Center for Research and Advanced Studies (CINVESTAV) of the National Polytechnic Institute of Mexico, Mexico City <i>Toward support of a research project entitled "<u>Protozoan Intestinal Diseases Biology and Epidemiology</u>"</i>	\$89,500	University of Virginia, Charlottesville <i>For a collaborative project with the Universidade Federale do Ceara to reduce the morbidity and mortality of enteric diseases in northeastern Brazil</i>	\$50,000
Christian Medical College and Hospital, Vellore, India <i>Toward the costs of a collaborative research and training project with the New England Medical Center, Tufts University, on diarrheal diseases in India</i>	\$70,000	Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia <i>Toward support of a research project entitled "<u>A Multidisciplinary Approach to Philippine Schistosomiasis</u>"</i>	\$34,500
		Johns Hopkins University, Baltimore, Maryland <i>To enable Dr David Perez-Morga, a molecular biologist, to undertake postdoctoral research at the School of Medicine</i>	\$25,600

Science-Based Development continued

Toward costs associated with Dr Gordon Ada's appointment as visiting professor in the Department of Immunology and Infectious Diseases, School of Hygiene and Public Health	\$35,000
Max Planck Institute for Immunobiology, Freiburg-Zahringer, West Germany Toward support for a research project on cellular immunity in malaria	\$60,000
Resources Development Foundation, Washington, D C Toward the costs of its International Biotechnology Program (Joint grant with Special Programming and Agricultural Sciences, for a total of \$100,000)	\$33,333
Task Force for Child Survival, Atlanta, Georgia [1989 - \$250,000, in addition to remaining funds from prior year appropriations] To support the task force as a leader in goal setting and enhancing global efforts to improve the survival of children	\$250,000
Transfer of Viral Vaccine Production Technology to Developing Countries [1989 - \$750,000, 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	
Foundation administered project For costs of Group of Experts meetings and travel by consultants in connection with the program	\$35,000
University of Quebec, Canada For use by its Institut Armand Frappier in continuing the transfer to Colombia of new technology for manufacturing veterinary and human rabies vaccines	\$700,000
University of California-Los Angeles Toward the costs of a symposium entitled "Parasitology Molecular Biology, Drug, and Vaccine Design"	\$20,000
University of Hawaii at Manoa For research directed to identifying and establishing a safe and effective adjuvant for a blood-stage malaria vaccine	\$75,000
University of Stockholm, Sweden Toward the costs of a research project on <i>Plasmodium falciparum</i> antigens relevant for the development of a malaria vaccine	\$30,000
University of Virginia, Charlottesville In support of research on the immunopathogenesis of cryptosporidiosis	\$79,600

World Health Organization (WHO), Geneva, Switzerland [1989 - \$250,000] To continue support for WHO's applied research programs focused on immunostimulants and better vaccine delivery systems (Joint grant with Population Sciences, for a total of \$500,000)	\$250,000
[1989 - \$350,000] To continue support for a special program of WHO aimed at expediting basic and developmental research on vaccines against selected Third World diseases	\$350,000
Zhu Jian, Ministry of Health, Beijing, China To continue research on the molecular sequence analysis of the Japanese encephalitis virus vaccine	\$12,260

Cooperative Initiatives in Health and Population

AIDS and Reproductive Health [1989 - \$450,000] To support multidisciplinary research on AIDS and reproductive health by developing-country scientists (Joint appropriation with Population Sciences, for a total of \$900,000)	
Population and Community Development Association of Thailand, Bangkok Toward the costs of an initiative designed to prevent the spread of AIDS in Thailand (Joint grant with Population Sciences, for a total of \$100,000)	\$50,000
AIDS Initiatives in Africa [1988 - \$450,000] To identify factors that intensify heterosexual transmission of human immunodeficiency virus (HIV) in Africa, interventions that can be effective there in preventing transmission, and mechanisms for communicating project results to policymakers and program managers (Joint appropriation with Population Sciences, for a total of \$750,000)	
Columbia University, New York, New York In support of AIDS prevention and health education projects in Senegal and Uganda (Joint grant with Population Sciences, for a total of \$450,000)	\$225,000
University of California San Francisco In support of a study to identify factors which identify heterosexual transmission of human immunodeficiency virus (Joint grant with Population Sciences, for a total of \$300,000)	\$150,000
Columbia University, New York, New York For a study, to be conducted in its School of Public Health, concerning home-made oral rehydration solutions used in India to treat acute diarrhea (Joint grant with Population Sciences, for a total of \$24,790)	\$5,000

Commonwealth Regional Health Secretariat of East, Central, and Southern Africa, Tanzania \$228,100
 [1989 - \$228,100]
 To encourage greater integration of health and population issues in the development policies of African countries (Joint appropriation with Population Sciences, for a total of \$456,200)

The Health Transition Program \$175,000
 [1989 - \$175,000]
 In support of a health transition program which will build the human capital for understanding and guide the social and biomedical 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 \$48,550
 In supplementary support of the secretariat of its Health Transition Program (Joint grant with Population Sciences, for a total of \$97,100)

Institute of Tropical Medicine, Antwerp, Belgium \$50,000
 Toward the costs of a study of genital ulcer disease and sexually transmitted diseases as factors of HIV infection in Zairean prostitutes (Joint grant with Population Sciences, for a total of \$100,000)

International Confederation of Midwives, London, England \$15,000
 Toward the costs of a workshop for midwifery educators, administrators, and obstetricians from seven French speaking West African countries (Joint grant with Population Sciences, for a total of \$30,000)

Johns Hopkins University, Baltimore, Maryland \$30,000
 To enable its School of Hygiene and Public Health to facilitate use of the bibliographic source POPLINE in selected African countries (Joint grant with Population Sciences, for a total of \$71,790)

Marine Biological Laboratory, Woods Hole, Massachusetts \$50,000
 Toward support of research on an antitoxin factor produced in the ovary of a marine mollusk that may be useful in the treatment of septic shock and cholera, and may also lead to a safer vaccine against whooping cough (Joint grant with Population Sciences, for a total of \$100,000)

Ministry of Public Health, Yaounde, Cameroon \$21,750
 For planning directed to the creation of a national epidemiology board in Cameroon (Joint grant with Population Sciences, for a total of \$43,500)

National Research Institute of Health, Addis Ababa, Ethiopia \$29,825
 Toward support of a study of the prevalence of human immunodeficiency virus among urban and semi urban Ethiopian women and the risk of perinatal transmission (Joint grant with Population Sciences, for a total of \$59,650)

Population Council, New York, New York \$50,000
 To help the council launch a program designed to integrate women's health and population policies in developing countries (Joint grant with Population Sciences, for a total of \$500,000)

Toward the costs of a study on the possible cellular vectors of the human immunodeficiency virus in the reproductive tract of males and females (Joint grant with Population Sciences, for a total of \$77,100) \$30,000

Research and Policy Boards \$350,000
 [1989 - \$350,000]
 In support of national health and family-planning research and policy boards in Mexico and Cameroon (Joint appropriation with Population Sciences, for a total of \$700,000 Grants will be made in subsequent years)

Society for Women and AIDS in Africa, Khartoum, Sudan \$2,500
 Toward the costs of a workshop on issues concerning women and AIDS (Joint grant with Population Sciences, for a total of \$5,000)

University of Ibadan, Nigeria \$8,750
 For research at its Faculty of Clinical Sciences and Dentistry on the treatment of malaria in pregnant women (Joint grant with Population Sciences, for a total of \$17,500)

Women for Women's Health Program \$300,000
 [1989 - \$300,000]
 To help Malawi and Uganda develop 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 Population Sciences, for a total of \$600,000 Grants will be made in subsequent years)

World Health Organization, Geneva, Switzerland \$300,000
 [1989 - \$300,000, in addition to remaining funds from prior year appropriations]
 To continue a program to reduce the rate of maternal mortality in developing countries (Joint grant with Population Sciences, for a total of \$600,000)

Fellowships

Biotechnology Career Fellowships \$407,500
 (Jointly funded with Agricultural Sciences and Population Sciences, for a total of \$1,100,000)

Population Sciences Grants

The population sciences division seeks to enhance reproductive choice in the developing world by supporting work to develop new contraceptive technologies, increase the availability of existing technologies, and identify the constraints, risks, and barriers that affect contraceptive use

The division also supports selected developing countries in strengthening the professional competence needed to establish population policies and effective management of family-planning programs

Developing Technology for Fertility Regulation

Assiut University, Egypt <i>For a study of the probability of ovulation and fertilization during the use of NORPLANT contraceptive implants</i>	\$29,650	Latin American Population Sciences Network [1988 - \$1,200,000] <i>To expand training, research, and intraregional collaboration in reproductive biomedicine and family planning in Latin America</i>	
Catholic University of Chile, Santiago <i>For a study of luteinizing hormone secretion during breast-feeding, to be conducted in the Faculty of Biological Sciences</i>	\$19,700	Academia Mexicana de Investigacion en Demografia Medica, Mexico City, Mexico <i>To enable the academy to assist selected Latin American countries implement an integrated program on reproductive health and family planning</i>	\$170,000
<i>For an international symposium on the biology of the oviduct</i>	\$22,000	Catholic University of Chile, Santiago <i>For a research and training program organized by its Reproductive and Developmental Biology Unit and Laboratory of Endocrinology</i>	\$380,000
<i>To enable scientists from outside Chile to attend a meeting on cell biology in Vina del Mar organized by the Iberoamerican Society for Cell Biology</i>	\$7,000	Programa Latinoamericano de Capacitacion e Investigacion en Reproduccion Humana, Mexico City, Mexico <i>For its research and training program for Latin American scientists interested in the field of human reproduction</i>	\$450,000
Centro de Pesquisas e Controle das Doencas Materno-Infantis de Campinas (CEMICAMP), Brazil <i>For a study of the effect of breast-feeding on fertility</i>	\$15,840	University of Chile, Santiago <i>For a research and training program in reproductive biology and endocrinology</i>	\$200,000
Chinese Academy of Medical Sciences, Beijing [1989 \$175,000] <i>To develop an antifertility vaccine that could be used by men</i>	\$175,000	National Museums of Kenya, Nairobi <i>For a research program at its Institute of Primate Research to develop a contraceptive vaccine against sperm</i>	\$86,400
Clinical Research Institute of Montreal, Canada <i>For research on human chorionic gonadotropin</i>	\$30,600	<i>To strengthen the reproductive biology program in the Institute of Primate Research</i>	\$89,000
Instituto de Saude, São Paulo, Brazil <i>For a study of the acceptability and use effectiveness of the diaphragm among low income women in São Paulo</i>	\$48,800	National University of Cordoba, Argentina <i>For research on reproductive biology and endocrinology at its Electron Microscope Center</i>	\$25,200
Johns Hopkins University, Baltimore, Maryland <i>For a collaborative study with the Sichuan State Family Planning Research Institute, China, on rates of vasectomy and tubal ligation as indicators of women's status in Sichuan</i>	\$65,920	Oregon State University, Corvallis <i>For a study of the mechanism of attachment of very early embryos to the maternal uterine lining</i>	\$8,000
<i>For research in the School of Medicine on luteal angiogenic factor</i>	\$61,800		

Oxford University, England <i>For use by its Department of Human Anatomy in studying the molecular endocrinological aspects of brain, pituitary, and gonadal interrelationships in mutant mice</i>	\$24,569	Universidad Nacional Autonoma de Mexico, Mexico City <i>For a study of gossypol's effects on the interactions between spermatogenic and Sertoli cells, to be conducted at the Department of Developmental Biology</i>	\$31,900
The Population Council, New York, New York <i>To study a sperm-immobilizing factor found in human serum</i>	\$50,000	University of Texas, Austin <i>For a study of gossypol's effects on DNA replication, to be conducted at the M D Anderson Hospital and Tumor Institute</i>	\$47,500
<i>For research on human antisperm antibodies and the development of an antifertility vaccine</i>	\$45,000		
<i>To enable scientists from developing countries to attend an international meeting on human reproduction to be held in Finland in 1990</i>	\$15,000	Research Support for Population Scientists in Reproductive Biology and Policy Studies Returning to Developing Countries <i>[1989 - \$500,000, in addition to remaining funds from prior year appropriations]</i> <i>To provide research support for population scientists returning to their home countries at the completion of fellowships</i>	
Alexandre Psychoyos, Bicêtre, France <i>To study the effects of antiprogestins and a plant product provided by the National Institute of Immunology, New Delhi, on preovulatory and preinfectious phenomena</i>	\$25,000	Catholic University of Chile, Santiago <i>For a study on the behavior of spermatozoa in female tubal fluid, to be conducted at its Institute of Biological Sciences</i>	\$25,000
Research and Training in the Population Sciences in Sub-Saharan Africa <i>[1989 - \$1,250,000, in addition to remaining funds from prior year appropriations]</i> <i>To continue to strengthen the capacity of African institutions and improve understanding of population trends in sub Saharan Africa</i>		Escola Paulista de Medicina, São Paulo, Brazil <i>For research on how hormones and other factors regulate the Sertoli cell</i>	\$31,250
University of Yaounde, Cameroon <i>For a study of physiological changes in Cameroonian women using contraceptive pills or injectables</i>	\$25,460	Instituto de Biología y Medicina Experimental, Buenos Aires, Argentina <i>For a study of factors from human follicular fluid that affect follicular maturation and the capacitation of spermatozoa</i>	\$35,000
Research on Topics Related to the Clinical Applications of Gossypol <i>[1988 - \$400,000, in addition to remaining funds from prior year appropriations]</i> <i>To support research on gossypol, its safety, reversibility, and efficacy as a contraceptive for use by men and also its possible other clinical applications</i>		University of Chile, Santiago <i>For a study of the role played by ovarian nerves in polycystic ovary, a common cause of infertility</i>	\$25,000
Brigham and Women's Hospital, Boston, Massachusetts <i>To develop a new model in the rat to evaluate gossypol's antifertility effects</i>	\$30,000	<i>For research on steroid receptors in the rat prostate, to be conducted in the Faculty of Medicine</i>	\$24,000
Cornell University, Ithaca, New York <i>For gossypol research at the New York Hospital-Cornell Medical Center</i>	\$35,000	South-to-South Cooperation in the Population Sciences and Reproductive Health <i>[1988 - \$1,000,000, in addition to remaining funds from prior year appropriations]</i> <i>To support South-to South cooperation in the population sciences and reproductive health (Other grants from this appropriation are listed under the division's second guideline, Improving Population Policies and Programs, and the Cooperative Initiatives guideline)</i>	
Ottawa Civic Hospital, Canada <i>For a study of gossypol's renal effects</i>	\$66,770	Assiut University, Egypt <i>For a study in the Faculty of Medicine on the effects of vaginal versus oral administration of contraceptive pills on liver function, hemostatic mechanisms, and blood lipids</i>	\$54,890
Rockefeller University, New York, New York <i>For chemical studies of gossypol using macromolecules from sperm, parasites, and viruses</i>	\$91,170		

Science-Based Development continued

Centro de Pesquisa e Assistencia em Reproducao Humana, Salvador, Brazil <i>For a study of hormone levels in women using a single subdermal contraceptive implant containing norgestrol acetate</i>	\$42,000	Centre for Development and Population Activities, Washington, D C <i>For programs designed to provide family-planning and reproductive health care education to young women in developing countries</i>	\$100,000
<i>To coordinate and participate in an international multicenter study to develop a vaginal contraceptive pill</i>	\$99,500	Chinese Academy of Medical Sciences, Beijing <i>For use by the Peking Union Medical College for a study of abortion among unmarried young women in the Beijing region</i>	\$35,600
Foundation-administered projects <i>Organizational costs, meetings, and consultants</i>	\$100,000	Christian Medical College, Ludhiana, Punjab, India <i>For a study of gender discrimination against females in North India as reflected in hospital admission data</i>	\$38,500
National Museums of Kenya, Nairobi <i>To enable the Institute of Primate Research to study in baboons a contraceptive vaccine developed by the National Institute of Immunology, New Delhi, India</i>	\$25,550	Columbia University, New York, New York <i>To reprint and distribute 10,000 copies of its paperback book, "Management Strategies for Family Planning Programs"</i>	\$36,450
University of Ibadan, Nigeria <i>To enable its Department of Obstetrics and Gynaecology to participate in the second phase of an international multicenter study to develop a vaginal contraceptive pill</i>	\$20,670	El Colegio de Mexico, Mexico City <i>[1989 \$350,000, in addition to remaining funds from prior year appropriations] To continue support for the recently formed doctoral program at its Center for Demographic and Urban Development</i>	\$350,000
University of Chile, Santiago <i>For a study of epididymal spermatozoa and testicular cells and strategies for male contraception</i>	\$27,000	Emory University, Atlanta, Georgia <i>For a project entitled "Family Planning an International Perspective"</i>	\$10,800
University of Salzburg, Austria <i>For clinical and animal studies to be conducted at the department of zoology using research protocols and products developed by investigators associated with the South to-South program</i>	\$10,000	Federal University of Minas Gerais, Belo Horizonte, Brazil <i>[1989 \$300,000, in addition to remaining funds from prior year appropriations] To strengthen the graduate training and research program on population and development at the Center for Regional Planning and Development (CEDEPLAR)</i>	\$300,000
World Health Organization, Geneva, Switzerland <i>[1989 - \$700,000, in addition to remaining funds from prior year appropriations] To enable WHO to monitor health, safety, and acceptability issues of the NORPLANT contraceptive method as it comes into widespread use in developing countries</i>	\$700,000	International Center for Research on Women, Washington, D C <i>For three field based research studies on the relationship between household structures, female headship, and intergenerational poverty in Latin American cities</i>	\$65,000
Improving Population Policies and Programs			
Applied Population Research Trust, Bangalore, India <i>For publication of an abstract on Indian population research</i>	\$42,000	International Union for the Scientific Study of Population, Liege, Belgium <i>To enable scholars from developing countries to attend its 21st general conference</i>	\$35,000
Beijing Medical University, China <i>For a training program designed to improve China's family-planning program</i>	\$92,950	Kansas State University, Manhattan <i>For three studies concerning population and development in sub Saharan Africa, to be conducted in its Department of Sociology, Anthropology, and Social Work</i>	\$25,900
Center for Cultural and Technical Interchange Between East and West, Inc (East West Center), Honolulu, Hawaii <i>To engage a consultant for a project concerning the 1988 Sample Survey on Fertility and Birth Control in China</i>	\$6,400		

Science Based Development continued

Oxford University, England <i>Toward the costs of a conference on India's policies during the first ten years following independence and how these policies affected other countries in South Asia (Joint grant with Arts and Humanities, for a total of \$12,000)</i>	\$6,000	University of Zimbabwe, Harare <i>To enable its Department of Sociology to offer fellowships under the master's degree program in population studies</i>	\$37,000
The Pathfinder Fund, Watertown, Massachusetts <i>For the publication of a chart providing population information to be used along with the international edition of "Contraceptive Technology"</i>	\$25,000	Research on the Evaluation of Family Planning Programs in Developing Countries <i>[1989 - \$500,000, in addition to remaining funds from prior year appropriations] To identify, through case studies of family-planning programs in selected developing countries, the key elements that policy personnel and program managers need to consider for strengthening national population programs</i>	
The Population Council, New York, New York <i>Toward the costs of publishing, in languages other than English, selected issues of its publication SEEDS, which documents income-generating activities of women in developing countries (Joint grant with Agricultural Sciences and Health Sciences, for a total of \$100,000)</i>	\$40,000	Operations Research Group, Baroda, India <i>For a study of program effort and performance of family-planning services in Bihar, India</i>	\$73,050
Princeton University, New Jersey <i>To develop statistical models for demographic data at its Office of Population Research</i>	\$55,080	Survey Research Indonesia, Jakarta <i>For a study of program effort and performance of family-planning services in Indonesia</i>	\$74,420
Research and Training in the Population Sciences in Sub-Saharan Africa <i>(Other grants from this appropriation are listed under the division's first guideline, Developing Technology for Fertility Regulation)</i>		University of Dhaka, Bangladesh <i>For a study of program effort and performance of family planning services in Bangladesh</i>	\$19,100
L Corner, A Coles, D V Dlamini, D Lucas, T J Makatjane, and N L Ngongco <i>For studies on the links between migration, fertility, child survival, and family planning practices in female-headed households in Botswana, Lesotho, and Swaziland</i>	\$60,000	University of Nairobi, Kenya <i>To enable its Population Studies and Research Institute to complete the first phase of a study designed to develop indicators for measuring family-planning program efforts in Kenya</i>	\$5,000
Nigerian Institute of Social and Economic Research, Ibadan, Nigeria <i>For a program of population policy research on Nigerian fertility differentials</i>	\$350,000	Foundation-administered projects <i>For costs of workshops and meetings</i>	\$45,000
Union for African Population Studies, Dakar, Senegal <i>For a conference and workshops on migration and African development</i>	\$50,000	Personnel and publication costs	\$60,000
University of Ibadan, Nigeria <i>For a study at its College of Medicine on the relationship between sexually transmitted diseases and male infertility in Nigeria</i>	\$52,500	Research on the Relationship between the Status of Women in Developing Countries and Fertility <i>[1989 - \$750,000, in addition to remaining funds from prior year appropriations] To continue support for research on women's status and fertility in developing countries</i>	
University of Lagos, Nigeria <i>For completion of a study on the characteristics of groups receptive to family planning in Lagos</i>	\$10,100	Noe Charez Alarcon, Anamelí Monroy de V, and Rebecka Lundgren, Mexico <i>For a study of women's status, contraceptive use, and fertility among young people in Mexico City</i>	\$38,450
University of Yaounde, Cameroon <i>To enable the University Centre for Health Sciences to offer a course in reproductive biology and epidemiology for French speaking African scientists</i>	\$65,250	Julie Da Vanzo, Rand Corporation, Santa Monica, California, and Suey-Ling, Hong Kong, China <i>For a study of women's status, son preference, and fertility in Malaysia</i>	\$59,580
		Mahidol University, Bangkok, Thailand <i>To study the interrelationships between child care arrangements, women's status, and fertility in urban Thailand</i>	\$58,580

Operations Research Group, Baroda, India <i>For a study of the relationship between the status of women and demographic change in Uttar Pradesh</i>	\$29,500	University of Michigan, East Lansing <i>For a study of marriages, family, and fertility in Beijing</i>	\$70,530
Simon Pachano and Hernan Carrasco, Institute of Ecuadorian Studies, Quito, Ecuador <i>For a study of how temporary migration in the Ecuadorian highlands affects the status of women, fertility rates, and population growth</i>	\$13,760	University of Nairobi, Kenya <i>For a clinical trial in its Department of Obstetrics and Gynaecology to test whether progestins taken in oral contraceptives affect the risk of malaria</i>	\$24,820
Anne R. Pebley, Princeton University, New Jersey, and Sajeda Amin, Dhaka, Bangladesh <i>For a study of the relationship between women's status, health, and nutrition in Bangladesh</i>	\$46,100	University of North Carolina, Chapel Hill <i>For a study of links between the status of women and fertility in Sri Lanka, to be conducted at the Carolina Population Center</i>	\$67,140
Harriet B. Presser, University of Maryland, College Park <i>For a study of economic development, fertility, and the employment experience of women in Puerto Rico</i>	\$50,430	<i>To quantify how improvements in record keeping and follow up procedures at government health clinics are affecting contraceptive use for child spacing in Benue State, Nigeria</i>	\$7,980
University of North Carolina, Chapel Hill <i>For a study of links between the status of women and fertility in Sri Lanka</i>	\$67,140	University of Washington, Seattle <i>For a study of development, the status of women, and fertility in Iran</i>	\$37,790
University of Washington, Seattle <i>For a study of developments in the status of women and fertility in Iran</i>	\$37,790	University of Zimbabwe, Harare <i>To enable the Department of Obstetrics and Gynaecology to participate in an international study to quantify the health benefits of contraceptive counseling for young women at risk of repeated abortions</i>	\$18,430
Rebeca Wong and Ruth Levine, Johns Hopkins University, Baltimore, Maryland <i>For a study of household structure in urban Mexico and its implications for women's child care and market activities</i>	\$39,340	Women Judges' Fund for Justice, Washington, D C <i>For a judicial conference entitled "The Impact of Reproductive Technology on Law"</i>	\$25,000
<hr/> Research Support for Population Scientists in Reproductive Biology and Policy Studies Returning to Developing Countries <i>(Other grants from this appropriation are listed under the division's first guideline, Developing Technology for Fertility Regulation)</i>		<hr/> Cooperative Initiatives in Health and Population	
<hr/> Peking University, Beijing, China <i>For a study at the Institute of Population Research on birth spacing patterns and correlates in China</i>		<hr/> AIDS and Reproductive Health [1989 \$450,000] <i>To support multidisciplinary research on AIDS and reproductive health by developing country scientists (joint appropriation with Health Sciences for a total of \$900,000. Grants will be made in subsequent years)</i>	
<hr/> South to South Cooperation in the Population Sciences and Reproductive Health <i>(Other grants from this appropriation are listed under the division's first guideline, Developing Technology for Fertility Regulation, and the Cooperative Initiatives Guideline)</i>		<hr/> AIDS Initiatives in Africa [1988 \$450,000] <i>To identify factors that intensify heterosexual transmission of human immunodeficiency virus (HIV) in Africa, interventions that can be effective there in preventing transmission, and mechanisms for communicating project results to policymakers and program managers (joint appropriation with Health Sciences, for a total of \$750,000)</i>	
University of Jos, Nigeria <i>To enable its Department of Obstetrics and Gynaecology to participate in an international study to quantify the health benefits of contraceptive counseling for young women at risk of repeated abortions</i>	\$29,670	Columbia University, New York, New York <i>For AIDS prevention and health education projects being undertaken by health departments in Senegal and Uganda in collaboration with Columbia's Center for Population and Family Health</i>	\$450,000
Universidad de los Andes, Bogota, Colombia <i>To compare the fertility transition in Colombia and Venezuela, countries with markedly different patterns of development</i>	\$70,390		

Australian National University, Canberra <i>Toward support of the "Health Transition" secretariat in Canberra, and the costs of one workshop on the cultural and social context of health</i>	\$48,550	South-to-South Cooperation in the Population Sciences and Reproductive Health <i>(Other grants from this appropriation are listed under the division's first guideline, Developing Technology for Fertility Regulation, and second guideline, Improving Population Policies and Programs)</i>	
Columbia University, New York, New York <i>For a study to be conducted in its School of Public Health, concerning homemade oral rehydration solutions used in India to treat acute diarrhea</i>	\$19,790	Instituto Nacional de la Nutricion Salvador Zubiran, Mexico City, Mexico <i>To evaluate the antiviral activity of gossypol in men infected with HIV</i>	\$90,700
Commonwealth Regional Health Secretariat of East, Central, and Southern Africa, Arusha, Tanzania [1989 - \$228,100] <i>To encourage greater integration of health and population issues in the development policies of African countries (Joint appropriation with Health Sciences, for a total of \$456,200)</i>	\$228,100	University of Guadalajara, Mexico <i>For a study in its Medical School to evaluate the antiviral activity of gossypol in men infected with HIV</i>	\$88,900
Johns Hopkins University, Baltimore, Maryland <i>To enable its School of Hygiene and Public Health to facilitate use of the bibliographic source POPLINE in selected African countries (Joint grant with Health Sciences, for a total of \$80,000)</i>	\$41,790	Society for Women and AIDS in Africa, Khartoum, Sudan <i>Toward the costs of a workshop on issues concerning women and AIDS</i>	\$2,500
Marine Biological Laboratory, Woods Hole, Massachusetts <i>For research on an antitoxin factor produced in the ovary of a marine mollusk that may be useful in the treatment of septic shock and cholera, and may also lead to a safer vaccine against whooping cough (Joint grant with Health Sciences, for a total of \$80,000)</i>	\$50,000	University of Ibadan, Nigeria <i>For research at the Faculty of Clinical Sciences and Dentistry on the treatment of Malaria in pregnant women</i>	\$8,750
Ministry of Public Health, Yaounde, Cameroon <i>For the creation of a national epidemiology board in Cameroon (Joint grant with Health Sciences, for a total of \$43,500)</i>	\$21,750	Women for Women's Health Program [1989 - \$300,000] <i>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 \$600,000 Grants will be made in subsequent years)</i>	
National Research Institute of Health, Addis Ababa, Ethiopia <i>For a study of the prevalence of human immunodeficiency virus among urban and semurban Ethiopian women and the risk of perinatal transmission (Joint grant with Health Sciences, for a total of \$59,650)</i>	\$29,825	World Health Organization, Geneva, Switzerland [1989 - \$300,000, in addition to remaining funds from prior year appropriations] <i>To continue a program to reduce the high rate of maternal mortality in developing countries (Joint appropriation with Health Sciences, for a total of \$600,000)</i>	\$300,000
The Population Council, New York, New York [1989 \$450,000] <i>To help the council launch a program designed to integrate women's health and population policies in developing countries (Joint appropriation with Health Sciences, for a total of \$500,000)</i>	\$450,000	[1989 \$250,000] <i>To conduct applied research to improve the delivery and reduce the costs of all vaccines (Joint appropriation with Health Sciences, for a total of \$500,000)</i>	\$250,000
<i>Toward the costs of a study on the possible cellular vectors of the human immunodeficiency virus in the reproductive tract of males and females</i>	\$47,100	Fellowships	
Research and Policy Boards [1989 \$350,000] <i>In support of national health and family planning research and policy boards in Mexico and Cameroon (Joint appropriation with Health Sciences, for a total of \$700,000 Grants will be made in subsequent years)</i>		Biotechnology Career Fellowships <i>(Jointly funded with Agricultural Sciences and Health Sciences, for a total of \$1,100,000)</i>	\$70,200

Global Environmental Program Grants

The global environmental program was launched in 1989 to support 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.

Bellagio Series on the Environment [1989 - \$525,000] <i>To fund a special series of ten Bellagio conferences on the environment.</i>		People's Government of Hainan Province, China <i>Toward the costs of enlisting the assistance of Dr. R. Martin Lees in planning a coordinated program of environmental preservation and economic development on Hainan Island. (Joint grant with Agricultural Sciences, for a total of \$94,000.)</i>	\$47,000
Parliamentarians Global Action for Disarmament, Development and World Reform, New York, New York <i>Toward the costs of a workshop, "Global Warming: North-South and the Planetary Partnership," to be held at the Bellagio Study and Conference Center, May 31-June 3, 1990.</i>	\$38,660	<i>Toward the costs of an "International Symposium on Economic Development and Protection of Environment and Natural Resources," to be held in Hainan and Beijing, March 12-19, 1990.</i>	\$25,000
American Committee on U.S.-Soviet Relations, Washington, D.C. <i>To undertake a study of emerging Soviet policy toward international cooperation on protection of the environment.</i>	\$43,000	Resources Development Foundation, Washington, D.C. <i>Toward the cost of its international biotechnology program. (Joint grant with Agricultural Sciences and Health Sciences, for a total of \$100,000.)</i>	\$33,333
American Farmland Trust, Washington, D.C. <i>To facilitate the participation of African nongovernmental organizations in a meeting of the African Development Bank's NGO Outreach Program, held in Abidjan, Ivory Coast, September, 1989.</i>	\$20,000	Sigma Xi, the Scientific Research Society, New Haven, Connecticut <i>Toward the costs of teleconferencing the "Forum on Global Change and Our Common Future," to be held at the Smithsonian Institution, May 2-3, 1989.</i>	\$5,000
Council on Ocean Law, Washington, D.C. <i>Toward its 1989 program activities.</i>	\$45,000	The Smithsonian Institute, Washington, D.C. <i>Toward the costs of a small national conference to explore the feasibility of establishing a high-level media working group committed to international public education and expanding group awareness of the global environmental crisis.</i>	\$25,000
The International Foundation for the Survival and Development of Humanity, San Francisco, California <i>For a prototype training program entitled "Building a Network of Energy Efficiency Centers," to be held at the Bellagio Study and Conference Center, June 25-30, 1990.</i>	\$64,000	Tata Energy Research Institute, New Delhi, India <i>Toward its establishment of an Information and Research Centre on global warming and climate change.</i>	\$90,000
National Academy of Sciences, Washington, D.C. <i>Toward the costs of an exploration between the U.S. National Academies of Sciences and Engineering, the Mexican Academia de la Investigacion Cientifica and the Academia Nacional de Ingenieria regarding possible areas of cooperation on Mexican environmental problems.</i>	\$15,000	University of São Paulo, Brazil <i>Toward the costs of a conference on "Global Warming and Sustainable Development: Perspectives from Developing Countries," to be held in São Paulo, Brazil, June 18-20, 1990.</i>	\$100,000
		Worldwatch Institute, Washington, D.C. <i>Toward its Research and Outreach Program on Environmentally Sustainable Development.</i>	\$100,000

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

<p>African Dissertation Internship Awards [1989 \$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 a future career in that region</p>	<p>Sekou Cisse, doctoral candidate from Guinea, award administered by Louisiana State University, Baton Rouge To conduct dissertation research at the Service National des Sols, Conakry, Guinea Research Title "Pedological Investigation of Mangrove Soils in Relationship to Rice Management in the Republic of Guinea"</p>	\$28,500
<p>Addis Ababa University, Ethiopia For administrative costs associated with Abebe Kifleyesus' affiliation with the university</p>	<p>Egerton University, Njoro, Kenya For administrative costs associated with Louis Mumera's affiliation with the university</p>	\$2,500
<p>For administrative costs associated with Tilahun Sineshaw's affiliation with the university</p>	<p>Emeka Ezera, doctoral candidate from Nigeria, award administered by the University of California Berkeley</p>	\$26,900
<p>For administrative costs associated with Tekalign Wolde Mariam's affiliation with the university</p>	<p>To conduct dissertation research at the National Centre for Economic Management and Administration, Nigeria Research Title "An Institutional Approach to the Implementation of Structural Adjustment Policies the Nigerian Case"</p>	
<p>Agricultural Research Corporation, Wad Medani, Sudan For administrative costs associated with Sam L. Laki's affiliation with the organization</p>	<p>Ghana Geological Survey, Accra For administrative costs associated with Isaac Boadi's affiliation with the organization</p>	\$2,500
<p>Isaac Billy Annan, doctoral candidate from Ghana, award administered by Cornell University, Ithaca, New York To conduct dissertation research at the International Centre of Insect Physiology and Ecology, Nairobi, Kenya Research Title "Phenological and Bionomical Studies of the Cowpea Aphid, craccivora Koch on Resistant and Susceptible Varieties of Cowpea"</p>	<p>Fadzai Gwaradzimba, doctoral candidate from Zimbabwe, award administered by Johns Hopkins University, Baltimore, Maryland To conduct dissertation research at the University of Zimbabwe Research Title "Southern Africa Development Coordination Conference Search for Autonomy and Regional Security"</p>	\$17,800
<p>Stephen Bankole, doctoral candidate from Nigeria, award administered by the University of Pennsylvania, Philadelphia To conduct dissertation research at the Obafemi Awolowo University, Ile Ife, Nigeria Research Title "Marital Partners' Reproductive Attitudes and Fertility among the Yoruba of Nigeria"</p>	<p>Louise Haly, doctoral candidate from Ivory Coast, award administered by Purdue University, West Lafayette, Indiana To conduct dissertation research at the Universite Nationale de Cote d'Ivoire Research Title "Economic Analysis of Technological Innovations for Cassava Production in Ivorian Farming Systems"</p>	\$19,900
<p>Isaac O Boadi, doctoral candidate from Ghana, award administered by the New Mexico Institute of Mining and Technology, Socorro To conduct dissertation research with the Ghana Geological Survey, Accra, Ghana Research Title "A Provenance Study on the Gold Placers of the Bukon Jedeh Area, Republic of Liberia, and Comparison to the Tarkwa Goldfield in Ghana"</p>	<p>Richard Hasler, doctoral candidate from Zimbabwe, award administered by Michigan State University, East Lansing To conduct dissertation research at the University of Zimbabwe Research Title "Local Organization in the Management of Zimbabwean Wildlife Resources Case Studies in the Sebungwe District"</p>	\$17,400
	<p>Institut Francais de Recherche Scientifique pour le Developpement en Cooperation, Dakar, Senegal For administrative costs associated with Boakat Keith Robertson's affiliation with the institute</p>	\$2,500

Institute of Animal Research, Cameroon For administrative costs associated with Aboubakar Njoya's affiliation with the institute	\$2,500	Aaron Mabaye, <i>doctoral candidate from Zimbabwe, award administered by the University of Maryland, College Park</i> To conduct dissertation research at the University of Lake Kariba Research Station, University of Zimbabwe Research Title "The Behaviour and Ecology of <i>Serranochromis codringtoni</i> (Boulenger) and <i>Tilapia rendalli</i> (Boulenger), (Cichlidae) in Lake Kariba, Zimbabwe "	\$29,400
International Centre of Insect Physiology and Ecology, Nairobi, Kenya For administrative costs associated with Isaac Billy Annan's affiliation with the center	\$2,500		
David Uru Iyam, <i>doctoral candidate from Nigeria, award administered by the University of California-Los Angeles</i> To conduct dissertation research at the University of Calabar, Nigeria Research Title "Cultural Constraints on Food Production Sufficiency in Biase A Case from Southeastern Nigeria "	\$24,900	Bertha T A Maegga, <i>doctoral candidate from Tanzania, award administered by Cornell University, Ithaca, New York</i> To conduct dissertation research at the National Institute for Medical Research, Tukuyu, Tanzania Research Title "Identification of <i>Simulium</i> (<i>Edwardsellum</i>) <i>Damnorum</i> S L Cytotypes in Relation to Human <i>Onchocerciasis</i> Transmission in Tukuyu, SW Tanzania "	\$29,700
Stanley Khaila, <i>doctoral candidate from Malawi, award administered by Michigan State University, East Lansing</i> To conduct dissertation research at the University of Malawi Research Title "Effect of Landholding Size, Household Composition, and Cash Cropping on Income, Women's Time Allocation, and Nutritional Status of Children in Salima Agricultural Development Division in Malawi "	\$29,650	Tekaligan Wolde Mariam, <i>doctoral candidate from Ethiopia, award administered by Boston University, Massachusetts</i> To conduct dissertation research at Addis Ababa University, Ethiopia Research Title "The Hinterlands of the City Food Production and Agrarian Change in Northwestern Shoa, Ethiopia, 1886-1960 "	\$24,500
Abebe Kifleyesus, <i>doctoral candidate from Ethiopia, award administered by Northwestern University, Evanston, Illinois</i> To conduct dissertation research at Addis Ababa University, Ethiopia Research Title "The Dynamics of Ethnicity in a Plural Society Transformation of Argobba Social Identity "	\$27,300	Mmantseta Toka P Marope, <i>doctoral candidate from Botswana, award administered by University of Chicago, Illinois</i> To conduct dissertation research at the University of Botswana Research Title "Determinants of Student Achievement in Botswana Junior Secondary Schools "	\$2,500
Biong Deng Kuol, <i>doctoral candidate from Sudan, award administered by the University of Wisconsin-Madison</i> To conduct dissertation research at the University of Zimbabwe Research Title "Conflicts over Communal Grazing Schemes in Midland and Masvingo, Zimbabwe "	\$24,800	Roderick D Masimba, <i>doctoral candidate from Tanzania, award administered by University of Boulder, Colorado</i> To conduct dissertation research at the University of Dar es Salaam, Tanzania Research Title "The Agency Problem An Empirical Investigation of Managerial Behavior Under Exogenously Imposed Principal Agent Relationships in Tanzania "	\$16,900
Sam L Laki, <i>doctoral candidate from Sudan, award administered by Michigan State University, East Lansing</i> To conduct dissertation research at the Agricultural Research Corporation of Sudan Research Title "Policy Analysis of Sudan's Irrigated Subsector—A Case of the Gezira Scheme "	\$28,000	Monde Mayekiso, <i>doctoral candidate from South Africa, award administered by the University of Maryland, College Park</i> To conduct dissertation research at Rhodes University, Grahamstown, South Africa Research Title "Ecological Relationships of the Fish Fauna of the Tyume River, Eastern Cape, South Africa "	\$28,100
Robert Mabagala, <i>doctoral candidate from Tanzania, award administered by Michigan State University, East Lansing</i> To conduct dissertation research at the Sokoine University of Agriculture, Tanzania Research Title "Ecology of <i>Pseudomonas Syringae</i> pv <i>Phaseolicola</i> (Burk) Young, Dye, Wilkie, and <i>Pseudomonas Syringae</i> pv <i>Syringae</i> van Hall in Tanzania "	\$16,450	Moi University, Eldoret, Kenya For administrative costs associated with Risper Nyong'o's affiliation with the university	\$2,500
		David Mtetwa, <i>doctoral candidate from Zimbabwe, award administered by the University of Virginia, Charlottesville</i> To conduct dissertation research at the University of Zimbabwe, Harare Research Title "An Investigation of Secondary School Students' Mathematical Beliefs and Classroom Context "	\$29,500

Science Based Development continued

Louis Mumera, <i>doctoral candidate from Kenya, award administered by the University of Illinois, Urbana-Champaign</i> To conduct dissertation research at Egerton University, Njoro, Kenya Research Title "Nitrogen and Phosphorous Nutrition as Factors in the Physiology of Maize under <u>Striga</u> "	\$26,700	Boakai Keith Robertson, <i>doctoral candidate from Liberia, award administered by Cornell University, Ithaca, New York</i> To conduct dissertation research at the Institut Francais de Recherche Scientifique pour le Developpement en Cooperation, Dakar, Senegal Research Title "Ecological Constraints and Limiting Factors Affecting the Nitrogen Fixing Legume - <u>Rhizobium</u> Association"	\$20,400
Violet M Nanchengwa, <i>doctoral candidate from Zambia, award administered by the University of Utah, Salt Lake City</i> To conduct dissertation research at the University of Zambia, Lusaka Research Title "Birth Spacing and Infant Mortality in Zambia"	\$25,900	Service National des Sols, Conakry, Guinea-Bissau For administrative costs associated with Sekou Cisse's affiliation with the organization	\$2,500
Steven Nangendo, <i>doctoral candidate from Kenya, award administered by Bryn Mawr College, Pennsylvania</i> To conduct dissertation research at the National Museums of Kenya, Nairobi Research Title "Women, Agricultural Economic Development, and Craft Production in Bungoma District, Western Province, Kenya"	\$27,400	Tilahun Sineshaw, <i>doctoral candidate from Ethiopia, award administered by the University of Cincinnati, Ohio</i> To conduct dissertation research at Addis Ababa University Research Title "A Critical Evaluation of the Ethiopian National Literacy Campaign Issues, Problems, Successes, and Prospects, with an Emphasis on Rural Development"	\$27,100
National Centre for Economic Management and Administration, Nigeria For administrative costs associated with Emeka Ezera's affiliation with the center	\$2,500	Sokoine University of Agriculture, Morogoro, Tanzania For administrative costs associated with Robert Mabagala's affiliation with the university	\$2,500
National Institute for Medical Research, Dar es Salaam, Tanzania For administrative costs associated with Bertha Maegga's affiliation with the institute	\$2,500	Soriba Sylla, <i>doctoral candidate from Guinea-Bissau, award administered by the University of Wisconsin Madison</i> To conduct dissertation research at the University of Conakry, Guinea Research Title "State, Market and the Small Farmers in Guinea"	\$25,700
National Museums of Kenya, Nairobi For administrative costs associated with Steven Nangendo's affiliation with the organization	\$2,500	Taha El Tahir Taha, <i>doctoral candidate from Sudan, award administered by Johns Hopkins University, Baltimore, Maryland</i> To conduct dissertation research at Wad Medani Teaching Hospital, Sudan Research Title "Determinants of Low Birth Weight in the Sudan, with Spectral Reference to Placental Malaria Infection"	\$27,100
Aboubakar Njoya, <i>doctoral candidate from Cameroon, award administered by Iowa State University of Science and Technology, Ames</i> To conduct dissertation research at the Institute of Animal Research, Cameroon Research Title "Protein Supplementation and Compensatory Growth in Grazing Low Quality Dry Season Pastures"	\$28,300	Universite Nationale de Cote d'Ivoire, Abidjan, Ivory Coast For administrative costs associated with Louise Haly's affiliation with the university	\$2,500
Risper Nyong'o, <i>doctoral candidate from Kenya, award administered by Iowa State University, Ames</i> To conduct dissertation research at Moi University, Eldoret Kenya Research Title "Steps to Domesticate the Multi purpose Tree Species <u>Sesbaniasesban</u> Provenance Variation, Selection Index, and Micropropagation"	\$26,200	Universite de Ouagadougou, Burkina Faso For administrative costs associated with Henri Ye's affiliation with the university	\$2,500
Obafemi Awolowo University, Ile-Ife, Nigeria For administrative costs associated with Stephen Bankole's affiliation with the university	\$2,500	University of Botswana, Gaborone For administrative costs associated with Mmantsetsa Toka P Marope's affiliation with the university	\$2,500
Rhodes University, Grahamstown, South Africa For administrative costs associated with Monde Mayekiso's affiliation with the university	\$2,500	University of Calabar, Nigeria For administrative costs associated with David Uru Iyam's affiliation with the university	\$2,500

Science-Based Development continued

University of Conakry, Guinea Bissau For administrative costs associated with Soriba Sylla's affiliation with the university	\$2,500	African Forum on Children's Technological Literacy [1989 - \$300,000, in addition to remaining funds from prior year appropriations] To generate popular understanding in Africa of the practical applications of science and technology by children and young adults	
University of Dar-es Salaam, Tanzania For administrative costs associated with Roderick Masimba's affiliation with the university	\$2,500		
University Lake Kariba Research Station, University of Zimbabwe, Harare For administrative costs associated with Aaron Mabaye's affiliation with the university	\$2,500	Foundation-administered project Program support expenses	\$110,000
University of Malawi, Lilongwe For administrative costs associated with Stanley Khatla's affiliation with the university	\$2,500	Mazingira Institute, Nairobi, Kenya Toward the costs of a project which will focus on its informal interactive educational activity with primary schools on the theme of "Science and Agriculture Animal Husbandry and Health"	\$75,000
University of Zambia, Lusaka For administrative costs associated with Violet M Nanchengwa's affiliation with the university	\$2,500	Aga Khan Foundation, Washington, D C Toward the Microcomputers in Education research project (Phase III) in which microcomputers are being used in Kenyan schools to revitalize the teaching/learning process	\$50,000
University of Zimbabwe, Harare For administrative costs associated with Richard Hasler's affiliation with the university	\$2,500	Association for Women in Development, Blacksburg, Virginia To enable participants from Africa to attend its fourth biennial conference, entitled "Development Challenge for the 1990s Global Empowerment of Women"	\$9,400
For administrative costs associated with Biong Deng Kuol's affiliation with the university	\$2,500		
For administrative costs associated with Fadzai Gwaradzimba's affiliation with the university	\$2,500	Beyond Child Survival [1988 \$485,000] 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 knowledge about nutritional deficiencies can be translated into action	
For administrative costs associated with David Mtetwa's affiliation with the university	\$2,500		
Wad Medani Teaching Hospital, Sudan For administrative costs associated with Taha El Tabir Taha's affiliation with the hospital	\$2,500	Foundation-administered projects Program support expenses	\$147,000
Henri Ye, doctoral candidate from Burkina Faso, award administered by Duke University, Durham, North Carolina To conduct dissertation research at Universtie de Ouagadougou, Burkina Faso Research Title "Survival and Establishment of <i>Gliricidia sepium</i> and <i>Leucaena leucocephala</i> and Their Fuelwood Production Potential in Comparison to <i>Eucalyptus camaldulensis</i> "	\$26,600	Toward the costs of a planning workshop, topic meetings, and an international conference	\$94,000
		Toward the costs of preparing analyses of past attempts to institutionalize nutrition data	\$100,000
Foundation-administered project Program support costs for the African Dissertation Internship Awards program	\$25,000	Institute de Investigacion Nutricional, Lima, Peru Toward the costs of a study on how information needed for effective decision making in improving childhood nutrition is analyzed and transferred in Peru	\$50,000
African Economic Research Consortium Program [1989 - \$700,000, in addition to remaining funds from prior year appropriations] To continue participation in a consortium of donors established to improve macroeconomic policy research and training in sub-Saharan Africa		Tanzania Food and Nutrition Centre, Dar es Salaam Toward the costs of a study on how information for decision making on nutrition related governmental action is analyzed and transferred in Tanzania	\$50,000
Foundation-administered project Operating costs of the program in Nairobi, Kenya	\$350,000	Columbia University, New York, New York To establish an African Data Bank	\$9,750

<p>Female Participation in African Education [1989 - \$200,000] <i>To improve understanding of sex differences in school participation in sub-Saharan Africa and to explore ways of helping African countries design, test, and implement policies that will encourage families to send their daughters to school (Grants will be made in subsequent years)</i></p>	
<p>Foundation-administered project <i>Toward the costs of a series of small, innovative projects relevant to the Foundation's science-based development program, administered by the field office in Nairobi</i></p>	\$79,707
<p>Freedom from Hunger Foundation, Davis, California <i>To strengthen its program of promoting sustainable action against chronic hunger in Mali</i></p>	\$25,000
<p>Gerald Freund, New York, New York <i>For a research and writing project that will describe, analyze and evaluate the encouragement and support given by foundations to exceptionally talented individuals at different stages in their careers</i></p>	\$5,000
<p>The Health Transition Program [1988 \$450,000] <i>To explore the wisdom of establishing a "health transition" program, which would build the human capital for understanding and then guiding the social and biomedical interventions needed to advance better health at low cost in the developing countries</i></p>	
<p><i>Costs of workshops in London England, and Cambridge, Massachusetts, for the program</i></p>	\$123,000
<p>Makerere University, Kampala, Uganda <i>Toward the costs of the donation of a sculpture, "The War Victim" by Francis Nnaggenda, to be displayed on the Makerere University campus</i></p>	\$35,000
<p>Massachusetts Institute of Technology, Cambridge <i>Toward the costs of a research project on credit and rural development policy in India</i></p>	\$20,000
<p>National Academy of Sciences, Washington, D C <i>To prepare an analysis of the history of the Board of Science and Technology for International Development (BOSTID) research program</i></p>	\$20,000
<p>Opportunities Industrialization Centers International, Inc , Philadelphia, Pennsylvania <i>Toward the costs of a pilot project on the dissemination of appropriate technology to small farmers in Africa through its African network of agricultural training centers</i></p>	\$43,000

Reflections on Development Program
[1988 \$600,000, 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

To be funded in 1990

Jimi Olalekan Adesina, University of Ibadan, Nigeria
For a reflection and writing project entitled "Labour and the Development Process"

Samuel Adetunji Adewuyi, University of Ibadan, Nigeria
For a reflection and writing project entitled "Street begging and National Development A Sociological Study of Nigeria"

Abdoulaye Bathily, Universite Cheikh Anta Diop de Dakar, Senegal
For a reflection and writing project entitled "An Historical Perspective of the West African State A Study of the State and Its Relationships with Civil Society"

Elizabeth U Eviota, Ateneo de Manila University, Philippines
For a reflection and writing project entitled "Class, State and Development in the Philippines"

Hiang Khng Heng, Straits Times, Singapore
For a reflection and writing project entitled "The Role of the Middle Class in Singapore's Political Development"

Augustine Nkemdilin Isamah, University of Ibadan, Nigeria
For a reflection and writing project entitled "Unions and Development A Comparative Analysis of the Role of Labour under the Structural Adjustment Programmes in Zambia and Nigeria"

Aneesa Kassam, National Museums of Kenya, Nairobi
For a reflection and writing project entitled "Culture, Environment and Development Environmental Perception Case Study Based on the Oromo Peoples of East and Northeast Africa"

Wong Mee Lian, University of Malaya, Kuala Lumpur, Malaysia
For a reflection and writing project entitled "The Role of Women in Community Development in Malaysia A Case Study among the Berawans of Sarawak"

Amandina Lihamba, University of Dar es Salaam, Tanzania For a reflection and writing project entitled "Aesthetics and Politics: The Theatre and Political Struggles in Africa"		Research on Improved Conservation and Management of Tropical Forest Resources [1987 \$400,000]	
Ungku Mohd Tahir Maimunah, Universiti Kebangsaan Malaysia, Bangi For a reflection and writing project entitled "Language and Literature Policies and Their Implementations from Independence to the 1980s"		Oxford University, England To be used by the Oxford Forestry Institute for research on incentives for smallholder tree growing in East Africa and South Asia (Joint grant with Agricultural Sciences, for a total of \$166,500)	\$93,000
Ibbo Mandaza, Southern Africa Political Economy Series, Harare, Zimbabwe For a reflection and writing project entitled "The State and Development Policy in Zimbabwe"		United Nations Development Programme, New York, New York For consultant services associated with the Bellagio II Tropical Forestry Meeting, held at Winston House, England	\$23,000
Eghosa Emmanuel Osaghae, University of Ibadan, Nigeria For a reflection and writing project entitled "Ethnicity Is Not Dead: Recent Trends, New Lights, and Implications for National Development in Nigeria"		Social Science Research Council New York, New York [1989 \$1,800,000] To continue building a cohort of outstanding Africanist social scientists, including a group with technical competence in agricultural, health and environmental concerns (Grants will be made in subsequent years)	
Phongphit Sert, Thai Institute for Rural Development, Bangkok, Thailand For a reflection and writing project entitled "Towards a New Paradigm in Rural Development"		University of Dar es Salaam, Tanzania Toward the costs of continuing and further developing a science camp for high school students in Tanzania	\$40,000
Sjahrir, University of Indonesia, Jakarta For a reflection and writing project entitled "Growth, Inequality and Structural Change: The Case of Indonesia, 1968-1988"		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	
Samuel Mwita Wangwe, University of Dar es Salaam, Tanzania For a reflection and writing project entitled "Diagnosis of the Industrialization Problem in Africa and Options for the Future: The Case of Tanzania"		Brookings Institution, Washington, D C Toward the costs of initiating an African Studies Program within its Foreign Policy Studies program	\$200,000
Paul Tiyambe Zeleza, Kenyatta University, Nairobi, Kenya For a reflection and writing project entitled "African Economic History in the 19th and 20th Centuries"		Council on Foreign Relations, New York, New York Toward the costs of organizing symposia in five U S cities to examine the factors that influence Africa's place on the U S policy agenda and identify possible strategies for bringing African issues into the mainstream of U S foreign policy concerns	\$50,000
Foundation administered projects Administrative costs associated with implementing the Southeast Asian and African segments of the program	\$133,400	Emory University, Atlanta, Georgia Toward the costs of a program on governance in Africa at its Carter Center	\$250,000
Expenses related to the preparation of revised proposals by program finalists	\$6,000	Foundation administered project Program support expenses	\$50,000
Program support expenses	\$54,356	Joint Center for Political Studies, Inc., Washington, D C Toward the costs of a study on African Americans' role in the U S foreign policy arena	\$40,000
Institute of Southeast Asian Studies, Singapore In general support to strengthen its overall work in the Southeast Asian segment of the program	\$25,000	Michigan State University, East Lansing Toward the costs of a study of the facilitation of linking academic analysis of Africa with the making of U S policy toward Africa	\$40,000

Overseas Development Council, Washington, D C <i>Toward the costs of an analysts, in collaboratton with the International Management and Development Group, of how the U S private sector can be encouraged on a continuing and sustained basis to develop commercial interests and investments in Africa</i>	\$36,000	The World Bank, Washington, D C <i>To explore ways of aiding the government of Kenya to achieve its long term education and training objectives</i>	\$30,810
		<i>Toward the implementation of an information system on donors' assistance to African education</i>	\$37,000
Transafrica Forum, Washington, D C <i>Toward the costs of a study to examine factors affecting coalition building and constituency mobilization around Africa U S affairs</i>	\$41,200	Yale University, New Haven, Connecticut <i>[1989 \$758,000, in addition to remaining funds from prior year appropriations] To build analytic capacity in the Third World for evaluating how public policy and technological change in low income countries contribute to differences in productivity, schooling, and health between men and women, and how these differences affect the welfare of the family unit</i>	\$758,000

Advanced Training Fellowships

Agricultural Sciences

China

Cao Yongwei, plant genetics and breeding
*Appointed from Fudan University, Shanghai
Place of study University of California, San Diego*

Chen Dan, plant genetics and breeding
*Appointed from Beijing University
Place of study Washington University, St Louis, Missouri*

Gan Susheng, plant genetics and breeding
*Appointed from East China Normal University, Shanghai
Place of study University of Wisconsin, Madison*

Gu Yong qiang, botany
*Appointed from Shanghai Academy of Agricultural Sciences
Place of study University of California, Riverside*

Shen Gezhi, plant genetics and breeding
*Appointed from Shanghai Academy of Agricultural Sciences
Place of study University of Georgia, Athens*

Xu Baoji, plant genetics and breeding
*Appointed from Shanghai Institute of Plant Physiology
Place of study Purdue University, West Lafayette, Indiana*

Xu De ping, botany
*Appointed from Institute of Botany Beijing
Place of study Cornell University, Ithaca, New York*

Xu Yong, plant genetics and breeding
*Appointed from Beijing University
Place of study Cornell University, Ithaca, New York*

Yu Zhihong, plant genetics and breeding
*Appointed from Institute of Genetics, Beijing
Place of study Cornell University, Ithaca, New York*

Zhang Yu, plant genetics and breeding
*Appointed from Institute of Genetics, Beijing
Place of study University of California, Berkeley*

Zhao Yuan, plant physiology
*Appointed from Institute of Biophysics, Beijing
Place of study Washington State University, Pullman*

Zhou Zong ming, plant genetics and breeding
*Appointed from China National Rice Research Institute,
Hangzhou
Place of study University of Missouri, Columbia*

India

Kshirod Kumar Jena, plant genetics and breeding
*Appointed from Directorate of Rice Research, Hyderabad
Place of study University of Georgia, Athens*

Korea

Lee Jang Yong, plant genetics and breeding
*Appointed from Agricultural Sciences Institute, Suweon
Place of study Purdue University, West Lafayette, Indiana*

Philippines

Gabriel Ortega Romero, plant genetics and breeding
*Appointed from Philippine Rice Research Institute, Los Banos
Place of study University of Cambridge, United Kingdom*

Alice Sacluti Saliba, biochemistry
*Appointed from University of the Philippines, Los Banos
Place of study University of California, Berkeley*

Uganda

Patrick R Rubaihayo, plant genetics and breeding
*Appointed from Makerere University, Kampala
Place of study Ohio State University, Wooster*

United States

William Grems Meikle, entomology
*Appointed from University of California, Berkeley
Place of study International Institute of Tropical Agriculture,
Cotonou, Benin*

Zimbabwe

Reneth Mano, agricultural economics
Appointed from University of Zimbabwe, Harare
Place of study Stanford University, California

Daniel Fungai Mataruka, agronomy
Appointed from University of Zimbabwe, Harare
Place of study *Cornell University, Ithaca, New York

Joseph Rusike, agricultural economics
Appointed from University of Zimbabwe, Harare
Place of study Michigan State University, East Lansing

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

Health Sciences

Nigeria

Nosa Orobato, public health
Appointed from University of Ibadan
Place of study Johns Hopkins University, Baltimore, Maryland

Population Sciences

Chile

Lisette Leyton, reproductive biology
Appointed from Pontificia Universidad Catolica de Chile, Santiago
Place of study Duke University, Durham, North Carolina

Grace Doris Moore, reproductive biology
Appointed from Instituto Chileno de Medicina Reproductiva, Santiago
Place of study University of Texas, San Antonio

China

Chen Ming Dao, reproductive biology
Appointed from Shanghai Institute of Endocrinology
Place of study University of Texas, Houston

Lin Jiang, demography
Appointed from Xi'an Jiaotong University, Xi'an
Place of study University of California, Berkeley

Liu Xian, demography
Appointed from Fudan University, Shanghai, China
Place of study University of Michigan, Ann Arbor

Sang Guo wei, reproductive biology
Appointed from Zhejiang Academy of Medicine, Hangzhou
Place of study New York Hospital Cornell Medical Center, New York, New York

Yang Haiou, sociology
Appointed from Beijing University
Place of study University of Hawaii, Honolulu

Yang Xiushi, demography
Appointed from Hangzhou University
Place of study Brown University, Providence, Rhode Island

Zhao Xiyan, demography
Appointed from Johns Hopkins University
Place of study Johns Hopkins University, Baltimore, Maryland

Zhou Zhong xun, reproductive biology
Appointed from Shanghai Institute of Biochemistry
Place of study University of North Carolina, Chapel Hill

India

Pradeep Kumar Bhargava, demography
Appointed from International Institute for Population Sciences, Bombay
Place of study University of Southern California, Los Angeles

Aditi Dutt, reproductive biology
Appointed from Indian Council of Medical Research, New Delhi
Place of study Rockefeller University, New York, New York

Debabrata Ghosh, reproductive biology
Appointed from All India Institute of Medical Sciences, New Delhi
Place of study Albert Einstein Medical Center, Philadelphia, Pennsylvania

Pradip Kumar Ghosh, reproductive physiology
Appointed from Maharaja Manindra Chandra College, Calcutta
Place of study Southern Illinois University, Carbondale

Sunita Sharma, reproductive biology
Appointed from Indian Council of Medical Research, New Delhi
Place of study University of Pennsylvania, Philadelphia

Rajesh K Srivastava, reproductive biology
Appointed from All India Institute of Medical Sciences, New Delhi
Place of study Morehouse School of Medicine, Atlanta, Georgia

Israel

Fuad Fares, reproductive biology
Appointed from Technion Israel Institute of Technology, Haifa
Place of study Washington University, St Louis, Missouri

Japan

Ritsu Yamamoto, reproductive biology
Appointed from Hokkaido University, Sapporo
Place of study University of Pennsylvania, Philadelphia

Kenya

Omondi Odhiambo, demography
Appointed from Kenya Medical Research Institute, Nairobi
Place of study Florida State University, Tallahassee

Joseph A M Ottieno, demography
Appointed from University of Nairobi
Place of study Johns Hopkins University, Baltimore, Maryland

Mexico

Haydea Izazola de Rossler, demography
Appointed from *El Colegio de Mexico*
Place of study *El Colegio de Mexico, Mexico City*

Olga Lopez-Rios, demography
Appointed from *Universite Catholique de Louvain*
Place of study *Universite Catholique de Louvain, Belgium*

Pakistan

Naushin Mahmood, demography
Appointed from *Pakistan Institute of Development Economics, Islamabad*
Place of study *University of Michigan, Ann Arbor*

Farhat Sultana, medical anthropology
Appointed from *Baluchistan Integrated Area Development Program, Quetta*
Place of study *University of Connecticut, Storrs*

Senegal

Boubacar Sow, demography
Appointed from the *Ministry of Economic Affairs, Dakar*
Place of study *Johns Hopkins University, Baltimore, Maryland*

Tanzania

Maurice C Y Mbago, demography
Appointed from *University of Dar es Salaam*
Place of study *Johns Hopkins University, Baltimore, Maryland*

Thailand

Boonsirm Withyachumnarnkul, reproductive biology
Appointed from *Mahidol University, Bangkok*
Place of study *University of Texas, San Antonio*

Biotechnology Career Fellowships

Agricultural Sciences

Brazil

Luiz Barreto de Castro, *National Center for Genetic Resources, Brasilia* Tissue specific gene expression on tropical tuberous and root crops, to improve their nutritional value, at the *University of California, Los Angeles (Renewal)*

Costa Rica

Ana M Espinoza Esquivel, *University of Costa Rica, San Jose* Rice hoja blanca (white leaf) virus, at the *John Innes Institute, Norwich, United Kingdom*

Korea

An Chung Sun, *Seoul National University* Sequencing of *Frankia* genes involved in nitrogen fixation *nifH, D, K, and nif-L, A* genes, at the *University of Tennessee, Knoxville (Renewal)*

Pakistan

Iqrar A Khan, *University of Agriculture, Faisalabad* Cloning the *N'* gene of *Nicotiana* species, at the *University of California, Riverside*

Sheikh Riazuddin, *University of the Punjab, Lahore* Expression of foreign genes in chickpea, at the *University of Washington, Seattle*

Health Sciences

Argentina

Daniel O Sordelli, *University of Buenos Aires* Development of a safe, live vaccine for prevention of bovine mastitis, at the *Miami University, Oxford, Ohio*

Brazil

Franklin David Rumjanek, *Universtade Federal de Minas Gerais, Belo Horizonte* Characterization of receptors for steroids and ecdysteroids in *Schistosoma mansoni*, at the *National Institute for Medical Research, London, United Kingdom (Renewal)*

China

Han Qide, *Beijing Medical University Alpha*, andrenergic receptor subtypes and cytosolic CA^{2+} , at *Emory University, Atlanta, Georgia*

Wang Xian, *Beijing Medical University ANP, CGRP, and NPY* as hemodynamic mediators in endotoxic, septic, and hemorrhagic shock, at *Loyola University of Chicago, Illinois*

India

Prabhakara V Choudary, *Jawaharlal Nehru University, New Delhi* Production of recombinant proteins and subunit vaccines in silkworms, at *Texas A&M University, College Station*

C Panneerselvam, *University of Madras* Molecular biology and immunology of prothymosin-alpha and parathymosin, at *Cornell University Medical College, New York, New York*

K V Atchuta Ramaiah, *University of Hyderabad* Regulation of hemoglobin syntheses in normal and abnormal hematologic conditions, at the *Massachusetts Institute of Technology, Cambridge, Massachusetts*

C Durga Rao, *Indian Institute of Science, Bangalore* Molecular cloning and expression of human rotaviral genes encoding the major antigenic proteins VP3 and VP7, at *Stanford University, California*

Malaysia

Nassar B G Rasool, *University of Malaya, Kuala Lumpur* Molecular epidemiology of rotavirus diarrhoea in Malaysia, at the *University of Warwick, Coventry, United Kingdom (Renewal)*

Nigeria

Ayoade M J Oduola, *University of Ibadan* Chemotherapy of malaria, at the *Walter Reed Army Institute of Research*, Washington, D C

Patrick Ojerifo Uadia, *University of Port Harcourt* Immune response to *Plasmodial* sporozoites, at *New York University*, New York, New York

Vietnam

Nguyen Le Trang, *National Institute of Hygiene and Epidemiology, Hanoi* Biochemistry of protozoa and helminth parasites, at the *Rockefeller University*, New York, New York

Population Sciences

China

Wang Linfang, *Chinese Academy of Medical Sciences, Beijing* Identification of gene encoding for a specific rabbit sperm tail protein, at the *Population Council Center for Biomedical Research* New York, New York (Renewal)

Zhang Zhiwen, *Beijing Medical University* Inhibin gene expression in the ovary, at the *Medical Research Centre, Prince Henry's Hospital, Melbourne, Australia*

Social Science Research Fellowships

Agricultural Sciences

Elias Ayuk, *an agricultural economist studying on-farm fertilizer evaluation and adoption in West Africa*, while located at the *International Fertilizer Development Center (IFDC)* project in Lome, Togo

Laurence Becker, *a geographer studying the major rice-growing agroecological zones and rice production systems of West Africa*, while located at the *West Africa Rice Development Association (WARDA)*, Bouake, Ivory Coast

Keith Fuglie, *an agricultural economist serving as Regional Social Scientist for North Africa and the Middle East*, while located at the *International Potato Center (CIP)* project in Tunis, Tunisia

Rashid Hassan, *an economist studying economic and policy issues affecting wheat production and import substitution in sub-Saharan Africa*, while located at the *International Maize and Wheat Improvement Center (CIMMYT)* project in Nairobi, Kenya

Timothy Kelley, *an agricultural economist serving as principal economics investigator for the social science component of several interdisciplinary research projects*, while located at the *International Crops Research Institute for the Semi-Arid Tropics (ICRISAT)*, Hyderabad, India

Anne Swindale, *an economist serving as Regional Social Scientist for Central America and the Caribbean*, while located at the *International Potato Center (CIP)* project in Santo Domingo, Dominican Republic

Population Sciences

Thomas Kane, *a sociologist conducting research on the design and analysis of demographic and health surveys*, while located at the *Center for Research on Population and Development (CERPOD)*, Sabel Institute, Bamako, Mali

Thomas LeGrand, *an economist conducting research on fertility behavior and infant and child mortality*, while located at the *Center for Research on Population and Development (CERPOD)*, Sabel Institute, Bamako, Mali

Peggy Lovell, *a sociologist conducting research on social demography and race and ethnic relations*, while located at the *Center for Development and Regional Planning (CEDEPLAR)*, Belo Horizonte, Brazil

Antonio McDaniel, *a sociologist conducting research on the demography of fostering in eastern Africa*, while located at the *University of Dar es Salaam, Tanzania*

Arts and Humanities Grants

The arts and humanities division encourages creative artists and scholars and teachers 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, increasing artistic experimentation across cultures, and improving international perspectives in American public schools.

Extending International and Intercultural Scholarship

American Association of Museums, Washington, D C \$48,300
Toward the costs of its "International Partnerships among Museums" program

American Historical Association, Washington, D C \$50,000
Toward a new edition of the Guide to Historical Literature

Toward the costs of an international conference on women's history at the Bellagio Study and Conference Center \$11,000

Asian Cultural Council, New York, New York \$20,000
Toward the costs of a museum training program as part of the Festival of Indonesia

Association of American Universities, Washington, D C \$25,000
In support of its project, the Coalition for the Advancement of Foreign Language and International Studies (CAFLIS)

Bryn Mawr College, Pennsylvania \$2,500
Toward the costs of a conference entitled "Relativism and Objectivity: Perspectives on Third World Culture"

Centre Africain d'Animation et d'Echanges Culturels, Dakar, Senegal \$25,000
Toward the costs of a conference entitled "The Writer and Human Rights"

City University of New York, New York \$50,000
Toward its "Universe of Music" project

Corcoran Gallery of Art, Washington, D C \$37,000
Toward the costs of developing a public information campaign in conjunction with the exhibit "Facing History: The Black Image in American Art"

Educational Broadcasting Corporation (WNET), New York, New York \$250,000
 [1989 \$250,000]
To help it produce "The Dance Project," a public television series exploring the role of dance in world culture

Harvard University, Cambridge, Massachusetts \$50,000
To continue building a program in the history and study of development

International Film Seminars, Inc., New York, New York \$6,000
Toward the travel costs of overseas filmmakers attending the 35th annual Robert Flaherty Seminar

Mary McLeod Bethune Museum Archives, Washington, D C \$25,000
Toward its development efforts

New School for Social Research, New York, New York \$30,000
For administrative, developmental, and planning costs of a museum project on the subject of "Home A Place in the World"

Oxford University, England \$6,000
Toward the costs of a conference on India's policies during the first ten years following independence and how these affected other countries in South Asia (Joint grant with Population Sciences, for a total of \$12,000)

Readers International, Inc., Columbia, Louisiana \$30,000
In support of its library marketing campaign for translations of contemporary world literature

Research Foundation of the State University of New York, Albany \$3,000
For use by SUNY, Buffalo toward the costs of transcribing the tapes of the First International Women Playwrights Conference, held at SUNY-Buffalo

Resident Fellowships in the Humanities [1989 \$2,600,000, in addition to remaining funds from prior year appropriations]
To support humanistic scholarship intended to illuminate and assess international and intercultural issues

Center for Psychosocial Studies, Chicago, Illinois \$224,000
To enable it to collaborate with the Center for East Asian Studies at the University of Chicago on its program of resident fellowships

Cornell University, Ithaca, New York \$225,000
Toward the costs of its program of resident fellowships at its Africana Studies and Research Center

Hunter College, City University of New York, New York \$225,000
Toward the costs of its program of resident fellowships in its Women's Studies program

Arts and Humanities continued

University of California at Los Angeles <i>Toward the costs of its program of resident fellowships at its Asian American Studies Center</i>	\$225,000	Smithsonian Institute, Washington, D C <i>Toward the development of educational and contextual activities to complement its "Caribbean Festivals Arts" exhibition</i>	\$100,000
University of Michigan, Ann Arbor <i>Toward the costs of its resident fellows program at its Center for Near Eastern and North African Studies</i>	\$145,000	Studio Museum in Harlem, New York <i>Toward costs related to "The Decade Show," an exhibition, catalogue, performance program, and panel series</i>	\$100,000
University of North Carolina, Chapel Hill <i>Toward the costs of its resident fellows program at its Center for Research on Women</i>	\$145,000	<i>Toward the costs of implementing an exhibition of African art entitled "Contemporary African Artists Changing Tradition"</i>	\$60,000
University of Texas at Austin <i>Toward the costs of its resident fellows program at its Institute for the Study of Literature, Religion, and Society in the Contemporary Middle East</i>	\$224,900	Trustees of the Corcoran Gallery of Art, Washington, D C <i>For research on and presentation of its exhibit, "Facing History The Black Image in American Art" exhibition</i>	\$100,000
<i>Toward the costs of its resident fellows program at its Institute of Latin American Studies</i>	\$225,000		
University of Virginia, Charlottesville <i>Toward the costs of its resident fellows program at its Center for Civil Rights, Woodson Institute for Afro-American and African Studies</i>	\$145,000	University of Arizona, Tucson <i>Toward the costs of the Tribal Museums Assessment Program of the Arizona State Museum</i>	\$18,400
Foundation-administered project <i>Program support expenses</i>	\$57,000	University of California, Los Angeles <i>For use by the Wight Art Gallery toward the costs of an exhibit entitled "Chicano Art Resistance and Affirmation"</i>	\$50,000
Salzburg Seminar in American Studies, Inc , Cambridge, Massachusetts <i>Toward the costs of its August 1989 session on "Museums and Their Communities Art, Ethnography and Interpretation"</i>	\$50,000	Washington Project for the Arts, Washington, D C <i>Toward its exhibition, "The Blues Aesthetic Black Culture and Modernism," and related activities</i>	\$20,000
Understanding Cultures through Museums [1989 - \$700,000] <i>To enable museums to conduct research for, develop, and present accurate, imaginatively powerful exhibitions of non Western and American minority cultures</i>		Visual Arts Research and Resource Center Relating to the Caribbean, Inc , New York, New York <i>Toward phase three of a project to establish a permanent Resource Center to house its collection of visual and written materials</i>	\$25,000
Brooklyn Institute of Arts and Sciences, New York <i>For use by the Brooklyn Museum in serving as a tour host of the "Facing History The Black Image in American Art" exhibit</i>	\$60,000	<i>Toward the costs of an international conference on "Cultural Diversity Based on Cultural Grounding"</i>	\$25,000
Center for Contemporary Arts, Santa Fe, New Mexico <i>Toward research and development of an exhibition entitled "The Revered Earth"</i>	\$25,000	WGBH Educational Foundation, Boston, Massachusetts [1989 - \$250,000, in addition to remaining funds from prior year appropriations] <i>To enhance public knowledge of Latin America through support for a prime-time public television series, entitled "The Other Americas," on the region's contemporary history</i>	\$250,000
Centre International Des Civilisations Bantu (CICIBA), Libreville, Gabon, South Africa <i>Toward the costs of its third international Biennial exhibition of contemporary African art, to be held in Lusaka, Zambia</i>	\$50,000	Yale University, New Haven, Connecticut <i>Toward development of a social science research project to study ways in which scholarship can be used to influence modernization efforts in Third World countries</i>	\$64,000
Foundation-administered project <i>Development of community-based programs related to the "Arts of Mexico" exhibition in New York, San Antonio, and Los Angeles</i>	\$75,000	<i>For use by its Program on Non-Profit Organizations toward the costs of a study on public policy toward the arts in the United States</i>	\$26,250

Increasing Artistic Experimentation Across Cultures

Alternative Media Information Center, New York, New York <i>For use by its Deep Dish TV Network for the packaging and distribution of a new intercultural series for cable broadcast</i>	\$25,000	City Celebration, Inc , San Francisco, California <i>Toward costs of a program to support the creation of new works by emerging multicultural artists</i>	\$50,000
American Dance Festival, Durham, North Carolina <i>Toward the costs of a week of South American Dance during its 1989 season</i>	\$30,000	Crossroads Incorporated, New Brunswick, New Jersey <i>Toward a collaborative cross-cultural theater piece entitled "Sheila's Day"</i>	\$25,000
<i>In support of its International Choreographers Workshop and related activities</i>	\$88,400	Cultural Research and Communication, Inc , Santa Monica, California <i>Toward the costs of a public television series entitled "Routes of Rhythm"</i>	\$25,000
American Music Theater Festival, Inc , Philadelphia, Pennsylvania <i>Toward the costs of commissions and workshop expenses for its "Latin Connection" project</i>	\$35,000	Dance Theater Workshop, New York, New York [1989 \$300,000, in addition to remaining funds from prior year appropriations] <i>To continue support for its "Suitcase Fund," a program of reciprocal touring by artists and performing arts companies from the United States and abroad</i>	\$300,000
Amigos Del Museo Del Barrio, New York, New York <i>Toward the costs of a 20th anniversary retrospective exhibit entitled "El Taller Boricua," to be held in conjunction with the "Hispanic Art in the United States" show at the Brooklyn Museum</i>	\$20,000	Dance USA, Washington, D C <i>Toward the costs of an international conference entitled "Internationalism in Dance Past, Present and Future"</i>	\$25,000
Appalshop, Inc , Whitesburg, Kentucky <i>For the costs of a multicultural, multidisciplinary arts festival, the American Festival Project</i>	\$30,000	D C Wheel Productions, Inc , Washington, D C <i>Toward costs related to its 1990-91 "International Exchange" project</i>	\$25,000
Arts Resources in Collaboration, Inc , New York, New York <i>Toward the restoration of "Eye on Dance" programs featuring international and intercultural artists and themes</i>	\$20,000	District Curators, Inc , Washington, D C <i>Toward the development and production of "Long Tongues A Saxophone Opera"</i>	\$15,000
Bay Area Video Coalition, Inc , San Francisco, California <i>Toward editorial and production costs for a critical history of video art entitled "Art Video"</i>	\$25,000	East Tennessee Foundation, Knoxville, Tennessee <i>Toward the development of international collaborations for the Knoxville World Festival</i>	\$10,000
British American Arts Association, (U S) Inc , Washington, D C <i>In support for and documentation of its 1989 International Cultural Relations Conference</i>	\$15,000	Educational Broadcasting Corporation (WNET Thirteen), New York, New York <i>Toward continuation of "Channel Crossings," a television series of dramas and documentaries produced abroad</i>	\$99,500
Brooklyn Academy of Music, New York, New York <i>Toward company fees and travel expenses for the national tour of DANCEAFRICA</i>	\$60,000	Exit Art, Inc , New York, New York <i>Toward the costs of its Juan Sanchez retrospective exhibition and catalogue</i>	\$20,000
<i>Toward the costs of presenting the 1989 New Music America Festival at satellite venues in New York City</i>	\$35,000	Fellowships for American Playwrights [1988 \$260,000, in addition to remaining funds from prior year appropriations] <i>For a playwrights-in-residence program that identifies and supports talented writers and encourages presentation of their work in resident theaters</i>	
Camera News, Inc , New York, New York <i>In support of "Internal Exile," a new Chilean film series and touring exhibition</i>	\$25,000	Actors Theatre of Louisville, New York, New York <i>For the residency of playwright Gary Leon Hill</i>	\$25,000
Carver Development Board, San Antonio, Texas <i>Toward costs related to an African Caribbean Festival at the Carver Community Cultural Center</i>	\$25,000		

Arts and Humanities continued

The Brooklyn Arts Council, Inc for BACA Downtown, New York <i>For the residency of a playwright to be named by its theater, BACA Downtown</i>	\$5,000	Foundation administered project <i>Program support expenses</i>	\$20,000
Cast Theatre, Inc , Hollywood, California <i>For the residency of a playwright to be named by the theater</i>	\$5,000	Festival International de Louisiane, Lafayette, Louisiana <i>Toward the costs of participation by artists from Africa and the Caribbean</i>	\$15,000
Center Theatre Group of Los Angeles, California <i>Playwright in residence, Philip Kan Gotanda</i>	\$25,000	Film News Now Foundation, New York, New York <i>Toward the costs of a national conference on issues surrounding the presentation of Third World and minority films to United States audiences</i>	\$40,000
Creation Production Company Inc , New York, New York <i>For the residency of playwright Susan Mosakowski</i>	\$25,000	Friends of Puerto Rico, Inc , New York, New York <i>For use by the Museum of Contemporary Hispanic Art toward the costs of an exhibit entitled "Contemporaries Juxtaposing Perceptions," complementing the "Hispanic Art in the U S" show at the Brooklyn Museum</i>	\$14,000
HOME for Contemporary Theatre and Art, New York, New York <i>For the residency of a playwright to be named by the theater</i>	\$5,000	Fund for U S Artists at International Festivals and Exhibitions <i>[1989 \$350,000, in addition to remaining funds from prior year appropriations] To improve and increase the role of American artists in international visual arts exhibitions and performing arts festivals throughout the world</i>	
Honolulu Theatre for Youth, Hawaii <i>For the residency of a playwright to be named by the theater</i>	\$5,000	Concerto Soloists of Philadelphia, Pennsylvania <i>Toward its participation in the Bratislava Festival, Czechoslovakia, April 1989</i>	\$5,000
International Arts Relations, Inc , New York, New York <i>For the residency of playwright Rafael Lima</i>	\$25,000	Institute of International Education, New York, New York <i>Toward (1) its cost in administering the Fund for U S Artists at International Festivals and Exhibitions, and (2) its International Festivals Database Project</i>	\$50,000
Intersection, San Francisco, California <i>For the residency of playwrights to be named by the theater</i>	\$5,000	<i>Toward the international exchange activities of its Arts International Program</i>	\$75,000
New Federal Theatre, Inc , New York, New York <i>For the residency of playwright Aishah Rahman</i>	\$25,000	<i>To enable its Arts International Program to administer the fund</i>	\$285,000
Perseverance Theatre, Inc , Douglas, Alaska <i>For the residency of a playwright to be named by the theater</i>	\$5,000	John F Kennedy Center for the Performing Arts, Washington, D C <i>Toward the participation of U S artists at the Kennedy Center "Imagination Center" Festival in Sydney, Australia, July 1989</i>	\$3,000
Second Stage Theatre, Inc , New York, New York <i>For the residency of playwright Jon Robin Bantz</i>	\$25,000	Lubovitch Dance Foundation, New York, New York <i>Toward the participation of the Lubovitch Dance Company in the Hong Kong Arts Festival in February 1990</i>	\$9,000
Seven Stages, Inc , Atlanta, Georgia <i>For the residency of a playwright to be named by the theater</i>	\$5,000	Martha Graham Center for Contemporary Dance, Inc , New York, New York <i>Toward participation by the Martha Graham Dance Company in the Carlton Dance Festival, to be held in Brazil in April 1989</i>	\$10,000
Soho Repertory Theatre, Inc and En Garde Arts, New York, New York <i>For the residency of playwright Mac Wellman</i>	\$25,000		
Stages Repertory Theatre, Inc , Houston, Texas <i>For the residency of a playwright to be named by the theater</i>	\$5,000		
Theatre and Arts Foundation of San Diego County, La Jolla, California <i>For the residency of playwright Jeff Wanshel</i>	\$25,000		
Theatre for a New Audience, Inc , New York, New York, and Perseverance Theatre, Douglas, Alaska <i>For the residency of playwright Darrah Cloud</i>	\$25,000		

Arts and Humanities continued

The Wooster Group, Inc , New York, New York \$8,000
Toward its participation in the Kaattheater Festival in Brussels, May 1989

Guadalupe Cultural Arts Center, San Antonio, Texas \$25,000
Toward its master artists residency program

Independent Committee on Arts Policy, New York, New York \$22,500
Toward its 1989 activities, including follow through on its national arts policy study, The Nation and the Arts

Institute of International Education, New York, New York \$350,000
[1989 - \$350,000]
To improve and increase the role of American artists in international visual arts exhibitions and performance arts festivals throughout the world

Intercultural Film/Video Fellowships \$35,000
[1989 \$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 1989

Shu Lea Chang, New York, New York

Christine Choy, New York, New York

Juan Downey, New York, New York

Ana Maria Garcia, Caparra Heights, Puerto Rico

Richard Gordon and Carma Hinton, Dorchester, Massachusetts

Gary Hill, Seattle, Washington

Joan Jonas, New York, New York

Edward Tim Lewis, Washington, D C

Danny Lyon, Clintondale, New York

Louis Massiah, Philadelphia, Pennsylvania

Ross McElwee, Cambridge, Massachusetts

Jonas Mekas, New York, New York

Susanna Munoz, San Francisco, California

Gunvor Nelson, Sausalito, California

Jon Schwartz, Santa Monica, California

Renee Tajima, New York, New York

Peter Thompson, Chicago, Illinois

Leslie Thornton, Brooklyn, New York

Steina Vasulka, Santa Fe, New Mexico

Billy Woodberry, Los Angeles, California

Interdisciplinary Artists Program \$191,500
[1989 \$250,000, in addition to remaining funds from prior year appropriations]
To assist American regional artists, especially minority and interdisciplinary artists, to develop collaborative projects and reach new audiences through arts organizations in their own parts of the country

Selected in 1989

Colorado Dance Festival, Inc , in collaboration with the Helena Film Society, Boulder

Contemporary Arts Center, New Orleans, Louisiana

Diverse Works, Houston, in collaboration with Mexic Arte, Austin, Texas

Hallwalls, Inc , Buffalo, New York

Intermedia Arts Minnesota, Minneapolis

Los Angeles Contemporary Exhibitions, California

New England Foundation for the Arts, Cambridge, Massachusetts

New Langton Arts, San Francisco, California

Painted Bride Art Center, Philadelphia, Pennsylvania

Puerto Rico Community Foundation, San Juan

Randolph Street Gallery, Chicago, Illinois

Southeast Community Cultural Center, Inc , Atlanta, Georgia

State Dance Association of Florida, in collaboration with the Metropolitan Dade County Cultural Affairs Council, Miami

International Arts Relations, Inc , \$30,000
 New York, New York
For curatorial outreach and educational programs focused on the commissioning of bilingual catalogues to accompany exhibitions

International Film Circuit, New York, New York \$15,000
For a touring exhibition of international films

Jacobs Pillow Dance Festival, Inc , \$60,000
 Lee, Massachusetts
Toward the costs of international and intercultural dance programs

Joyce Theater Foundation, New York, New York \$50,000
Toward artistic fees for the presentation of the American Indian Dance Theater

La Napoule Art Foundation-Henry Clews \$30,000
 Memorial, New York, New York
Toward the costs of an international residency program involving Third World artists

Multi Arts Production Fund \$429,000
[1989 - \$750,000, in addition to remaining funds
from prior year appropriations]

To continue the Foundation's formalized process for
encouraging proposals in the performing arts that
reflect the boldest and most creative approaches to
international and/or intercultural representation in
contemporary art

Selected in 1989

Asociacion De Musicos Latinos Americanos,
Philadelphia, Pennsylvania
Toward the costs of co-commissioning a project
entitled "Latin Vibrations! At the Bride," a series
of four new works by composers from Puerto Rico,
Brazil, and Argentina in collaboration with the
Painted Bride Art Center

Berkeley Repertory Theatre, Berkeley, California and
Circle Repertory Theatre Company, Inc ,
New York, New York
Toward a co-production of "Each Day Dies with
Sleep"

Brava! For Women in the Arts and Eureka
Theatre, San Francisco, California
Toward a co-production of the world premiere of
"Shadow of a Man"

The Brooklyn Arts Council, Inc ,
Brooklyn, New York
To enable its theatre, BACA Downtown, to develop
a project entitled "The Death of the Last Black
Man in the World," a "requiem mass" in the jazz
aesthetic

Crosspulse, El Sobrante, California
Toward the costs of a collaborative project entitled
the Body Music/Kecak Project

Crossroads Theatre Company, New Brunswick,
New Jersey
Toward the costs of the Sangoma Project for the
establishment of a resident ensemble of African-
American women and for the creation of an original
production

Dancing in the Streets, Inc , Brooklyn, New York
Toward "Incomparable Rhythms," a three day
festival of intercultural perspectives on percussive
dance and music at sites along Museum Mile, at the
Apollo Theatre, and elsewhere in the five boroughs
of New York City

El Hakawati Theatre Co , Israel
Toward the production of "In Search of Omar
Khayyam"

En Garde Arts, Inc , New York, New York
Toward the costs of a collaborative site-specific
project entitled "Little West Twelfth"

Friends of the Arts, Inc , San Francisco,
California
Toward a commissioning program for
contemporary, multicultural, performing arts
projects created by Bay Area artists for
Festival 2000

Kulintang Arts, Inc , San Francisco, California
Toward the costs of a collaborative music and dance
project

Mandeleo Institute, Oakland, California
Toward the production of "Tambala"

Mandeleo Institute, San Francisco, California
Toward the costs of a series of collaborative music
and dance pieces

Padua Hills Playwrights' Workshop Festival,
Los Angeles, California
Toward the formation of an ensemble for the
production of "Salsa Opera"

The Painted Bride Art Center,
Philadelphia, Pennsylvania
Toward the costs of co commissioning a project
entitled "Latin Vibrations! At the Bride," a series
of four new works by composers from Puerto Rico,
Brazil, and Argentina in collaboration with the
Asociacion De Musicos Latino Americanos

The Pauline Oliveros Foundation, Inc ,
Kingston, New York
Toward the research and development of NZINGA,
a musical theatre world

People's Theatre Coalition, Inc ,
San Francisco, California
Toward the costs of a new multi cultural works
program

Redwood Records Cultural and Educational
Fund, Oakland, California
Toward the costs of a collaborative project of
Caribbean dub poetry and choreography

The Reich Music Foundation,
New York, New York
Toward the costs of a project entitled "The Cave," a
documentary music/video/theatre work

The St Ann Center for Restoration and the Arts,
Inc , Brooklyn, New York
Toward the development of "Maya," a dance theatre
work

The Suzuki Co of Toga, Japan
Toward the development of "Outrage The Limits
of Man"

Arts and Humanities continued

Meet the Composer, New York, New York [1989 - \$150,000, in addition to remaining funds from prior year appropriations] To bridge the distance between jazz and the rest of the serious music community through a national fellowship 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	Solomon R Guggenheim Foundation, New York, New York Toward the production of a series for public television of the Guggenheim Museum's "Works in Process Performing Arts Series"	\$25,000
Musee National d'Art Moderne, Paris, France Toward travel expenses for artists participating in "Magiciens de la Terre" exhibition	\$20,000	Spoletto Festival U S A , Charleston, South Carolina Toward artists' fees for the production and presentation of "Tango/Orfeo"	\$50,000
Music Theatre Group, Inc , New York, New York Toward its artistic expenses in remounting "Juan Darien" and the development of new projects	\$50,000	The St Ann Center for Restoration and the Arts, Inc , Brooklyn, New York Toward the costs of an intercultural theater work entitled "Brightness Falling"	\$15,000
National Assembly of State Arts Agencies, Washington, D C Toward the costs of publishing and distributing a book entitled "Presenting, Touring and the State Arts Agencies"	\$25,000	Sundance Institute for Film and Television, Salt Lake City, Utah Toward the costs of its Latin American Filmmakers Exchange Program	\$60,000
New Radio and Performing Arts, Inc , Brooklyn, New York Toward continuation of its radio series featuring work by minority and international artists	\$35,000	Teatro Avante, Inc , Miami, Florida For the participation of international companies in its 1989 Hispanic Theatre Festival	\$40,000
New York Shakespeare Festival, New York, New York [1989 - \$150,000, in addition to remaining funds in prior year appropriations] To assist the presentation of contemporary Latin American theater, music, film, and television through the Festival Latino of the New York Shakespeare Festival (NYSF)	\$150,000	The Telluride Institute, Inc , Colorado For the participation of international composers in its 1989 Composer-to Composer Festival	\$15,000
Perseverance Theatre, Inc , Douglas, Alaska Toward the establishment of a multicultural resident company	\$35,000	Theater Artaud, San Francisco, California Toward the costs of its project entitled "Black Choreographers Moving toward the Twentieth Century"	\$30,000
The Purchase College Foundation, New York, New York In support of the 1989 season of SUMMERFARE, an international performing arts festival	\$50,000	Trisha Brown Dance Company, Inc , New York, New York Toward creation of a dance videotape, "Brown on Brown"	\$50,000
Reich Music Foundation, New York, New York Toward research and development of an intercultural music/theater/video work entitled "The Cave"	\$50,000	Twin Cities Public Television, Inc (KTCA/TV), Minneapolis, Minnesota [1989 - \$200,000, in addition to remaining funds from prior year appropriations] To enable Twin Cities Public Television to continue to provide on national television a regularly scheduled summer showcase series, "Alive From Off Center," presenting new and innovative work in dance, theater, music, and performance and video art	\$200,000
Santa Fe Chamber Music Festival, Ltd , New Mexico In support of its "Music of the Americas" program	\$50,000	United Latinos for the Arts in Los Angeles, California Toward an exhibition entitled "L A L A LA Art by 15 Contemporary Latino Artists," to be held in conjunction with the "Hispanic Art in the United States" show at the Los Angeles County Museum of Art	\$7,000
Social and Public Arts Resource Center, Venice, California Toward an exhibition entitled "Not Included," to be held in conjunction with the "Hispanic Art in the United States" show at the Los Angeles County Museum of Art	\$3,000	Urban Bush Women, New York, New York Toward the further development of "Praise House"	\$25,000

Videocassette Distribution Project (1989 \$850,000, in addition to remaining funds in prior year appropriations) To increase public access through videocassette to outstanding cultural, educational, and documentary film and video materials		American Forum, Inc , New York, New York Toward the continuation of a training program in international education in the New York City public high schools	\$150,000
Foundation administered project Program support expenses	\$225,000	Community Foundation of Greater Washington, Inc , Washington, D C Toward the development of a Superintendent's Academy for Humanities and Arts Teaching	\$150,000
Vivian Beaumont Theater, Inc , New York, New York Toward the development of an intercultural theater piece entitled "Township Fever"	\$50,000	COMPAS, Inc , St Paul, Minnesota To continue its program for improving writing instruction in the St Paul secondary schools	\$90,000
Walker Art Center, Minneapolis, Minnesota Toward the costs of presenting an International Festival of Performing Arts	\$3,000	Dade Foundation, Miami, Florida In support of the Dade County Public Schools' Teacher Education Center Humanities Project	\$150,000
WHYY Inc , Philadelphia, Pennsylvania Toward the costs of the 1989 International Public Television Screening Conference	\$15,000	International Education Consortium, St Louis, Missouri Toward the costs of continuing its program of teacher training to strengthen international education in the St Louis secondary schools	\$115,000
World Encyclopedia of Contemporary Theatre, Toronto, Canada Toward the African and Latin American volumes of a planned six volume encyclopedia of contemporary (1945-1985) world theater	\$97,000	Los Angeles Educational Partnership, California Toward institutionalization of its HUMANITAS Academy, which fosters professional renewal of teachers through interdisciplinary activities in the arts and humanities	\$150,000
World Music Productions, Washington, D C In support of AFROPOP WORLDWIDE, a nationally distributed public radio series on contemporary African music	\$50,000	Los Angeles Unified School District, California Toward planning costs for a new teacher center to be called the HUMANITAS Academy	\$25,000
Yellow Springs Institute for Contemporary Studies and the Arts, Chester, Pennsylvania Toward the costs of an international residency program	\$20,000	Michigan Council for the Humanities, Detroit Toward the costs of a planning process to determine the feasibility of a Detroit Alliance for the Humanities in the Schools	\$17,000
Improving International Perspectives in American Public Schools		Philadelphia Alliance for Teaching Humanities in the Schools, Pennsylvania For continuation of its project to revise the world history curriculum in the School District of Philadelphia	\$175,000
American Forum, Inc , New York, New York Toward the costs of its project, Alliance for Education in Global and International Studies	\$25,000	For the administrative costs of the CHART network	\$270,000
Collaboratives for Humanities and Arts Teaching (1989 \$2,300,000, in addition to remaining funds from prior year appropriations) To build a national network of collaborative projects that feature the arts and humanities as essential priorities for school improvement and demonstrate the centrality of the teacher as the agent of educational reform		Pittsburgh Public School District, Pennsylvania To continue the Arts PROPEL Dissemination Project	\$150,000
		San Francisco Education Fund, California To continue its San Francisco Humanities Education, Research and Learning Development (HERALD) project	\$150,000
		South Carolina Committee for the Humanities, Inc , Clemson For continuation of a rural education project in the arts and humanities	\$175,000

Arts and Humanities continued

University of Arkansas at Little Rock <i>For use by its Arkansas International Center in continuing an interdisciplinary teacher training program in global education</i>	\$150,000	Carnegie Hall Society, New York, New York <i>[1989 - \$388,000, in addition to remaining funds from prior year appropriations] To enable Carnegie Hall to administer the last in a series of international competitions for excellence in the performance of 20th century American recital and concert music</i>	\$388,000
Foundation administered project <i>Network for Secondary Schools to continue to undertake activities designed to promote and strengthen the CHART network</i>	\$79,700	Educational Testing Service, Princeton, New Jersey <i>[1989 - \$230,000, in addition to remaining funds from prior year appropriations] To continue collaborating with Harvard University's Project Zero on the development of new approaches to instruction and testing in the arts and humanities</i>	\$230,000
Connecticut College, New London <i>[1989 - \$625,000, in addition to remaining funds from prior year appropriations] To continue the program of Rockefeller Foundation Fellowships for Foreign Language Teachers in the High Schools, administered by Connecticut College</i>	\$625,000	Harvard University, Cambridge, Massachusetts <i>[1989 - \$270,000, in addition to remaining funds from prior year appropriations] To continue collaborating with the Educational Testing Service (ETS) on the development of new approaches to instruction and testing in the arts and humanities</i>	\$270,000
Connecticut Humanities Council, Middletown <i>Toward the establishment of local cultural alliances, involving universities, schools, and cultural institutions, to strengthen humanities teaching in Hartford and New London public schools</i>	\$50,000	OPERA America, Washington, D C <i>[1989 - \$150,000, in addition to remaining funds from prior year appropriations] To enable OPERA America to continue its program, "Opera for the Eighties and Beyond"</i>	\$150,000
National Council for the Social Studies, Washington, D C <i>For continuation of its National Commission to review social studies education in the country's elementary and secondary schools</i>	\$100,000	Southeastern Center for Contemporary Art, Winston Salem, North Carolina <i>[1989 - \$350,000] To enable the center to continue its Awards in the Visual Arts (AVA) program</i>	\$350,000
Other			
The American Assembly, New York, New York <i>[1989 - \$185,000] To create a wide-ranging national forum for discussion of the role of the arts in the United States today</i>	\$185,000		
The following grants were approved under former guidelines			
American Symphony Orchestra League, Washington, D C <i>Toward further development of its Orchestra Library Information Service and its New Music Project</i>	\$75,000		
Brooklyn Academy of Music, New York, New York <i>In support of its 1989 Next Wave Festival</i>	\$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

The Better Babies Project, Washington, D.C. [1989 - \$200,000, in addition to remaining funds from prior year appropriations] To support completion of this community-based action project aimed at reducing the incidence of low birth weight among babies born to poor, minority mothers.	\$200,000	Children Now, Oakland, California Toward its general operating expenses.	\$100,000
Black Women's Agenda, Atlanta, Georgia Toward the costs of convening a steering committee of national black women's organizations.	\$15,000	Children's Defense Fund, Washington, D.C. [1989 - \$600,000] To assist the fund in launching the second phase of its Adolescent Pregnancy Prevention Project.	\$600,000
Cambridge College, Massachusetts Toward the costs of its Graduate Studies Preparation Program.	\$100,000	Community Planning and Action [1989 - \$2,325,000, in addition to remaining funds from prior year appropriations] To support the operation in selected cities of planning and action projects dedicated to reducing persistent poverty.	
Center for Community Change, Washington, D.C. Toward the costs of expanding the center's public policy work on resource issues for community-based development.	\$100,000	Boston Foundation, Massachusetts To support the continued development and operation of planning and action projects dedicated to reducing persistent poverty.	\$450,000
Toward development of statewide plans to mount public education activities aimed at achieving state and national policies addressing issues affecting low-income people.	\$50,000	For its community planning and action project, including extra translation costs in connection with its survey of the nature and extent of persistent poverty in Boston.	\$440,000
Center for Documentary Media, New York, New York Toward the research and development costs of a television documentary on poverty in America.	\$60,000	Case Western Reserve University, Cleveland, Ohio To support the development and operation of planning and action projects dedicated to reducing persistent poverty.	\$416,860
Center on Budget and Policy Priorities, Washington, D.C. [1989 - \$150,000] To help the center continue its analyses of the impact of federal, state, and local government budgets on low-income families and individuals.	\$150,000	Foundation-administered project Technical assistance for projects aimed at reducing persistent poverty in six cities.	\$75,000
Child Care Plus [1989 - \$600,000] To support the planning and early operations of a multiyear demonstration initiative on child care and maternal employment in low-income families. (Grants will be made in subsequent years.)		Greater Washington Research Center, Washington, D.C. To support the continued development and operation of planning and action projects dedicated to reducing persistent poverty.	\$400,000
		Piton Foundation, Denver, Colorado To support the continued development and operation of planning and action projects dedicated to reducing persistent poverty.	\$272,000
		San Antonio Cares, Texas To support the continued development and operation of planning and action projects dedicated to reducing persistent poverty.	\$582,190

Equal Opportunity continued

Urban Strategies Council, Oakland, California \$300,000
To support the continued development and operation of planning and action projects dedicated to reducing persistent poverty

Community Information Exchange, Washington, D C \$50,000
Toward its general operating expenses

Development of a Representative Hispanic Sample [1989 - \$160,000]
To support the development of a large and representative sample of Hispanics that can be added to the Panel Study of Income Dynamics

University of Michigan, Ann Arbor \$60,000
Toward the costs of adding the sample to the Panel Study of Income Dynamics

University of Texas, Austin \$100,000
Toward the costs of adding the sample to the Panel Study of Income Dynamics

Emory University, Atlanta, Georgia \$30,000
Toward the costs of its Public Health Fellows Summer Program for black and other minority college students

Enterprise Foundation, Columbia, Maryland [1989 - \$150,000] \$150,000
To support the Enterprise Foundation's efforts to develop nonprofit systems for improving housing and also human and community services in low-income neighborhoods

Federal City Council, Washington, D C \$100,000
Toward the costs of an independent review of the status of the Washington, D C , public school system

Foundation-administered projects
Toward the costs of a Foundation-sponsored team of field analysts selected to monitor and document the activities of the six community planning and action projects supported by the Foundation \$88,200

Preparation of specifications for a demonstration program aimed at significantly increasing the scale of community development activities in five to ten localities \$75,000

To develop a comprehensive human capital strategy for community development \$100,000

Toward the costs of the preparation, publication, and dissemination of a special leadership report on the Minority Female Single Parent (MFSP) findings \$60,000

Toward a study entitled "An Exploratory Review and Assessment of Strategies for Assisting Young Black Males in Their Search for Self-Esteem" \$20,000

Greater Washington Research Center, Washington, D C \$50,660
To enable the Community Partnership for the Prevention of Homelessness to establish a series of neighborhood-based partnerships in high-risk areas in an effort to prevent homelessness in Washington, D C

Human Capital [1989 - \$1,525,000]
To develop a cohort of young, primarily minority scholars concerned with the study of persistent poverty and the underclass and public policy

Social Science Research Council, New York, New York \$725,000
To develop a cohort of young scholars concerned with the study of persistent poverty and the underclass

University of Maryland, College Park \$250,000
For use by its Afro-American Studies Program in providing advanced training for junior faculty and advanced doctoral candidates from historically black colleges

University of Michigan, Ann Arbor \$250,000
To enable its School of Social Work and Public Policy to involve six postdoctoral minority scholars in its multidisciplinary research on persistent poverty and the underclass

Woodrow Wilson National Fellowship Foundation, Princeton, New Jersey \$300,000
Toward the costs of administering a program for minority recruitment and training in public policy

Illuminating Intergenerational Perspectives [1988 - \$400,000]
To further understanding of how intergenerational approaches in human services can foster better developmental outcomes for low income parents and their children

American Association for Marriage and Family Therapy Research and Education Foundation, Washington, D C \$49,330
Toward the costs of a project entitled "Child Care for Low-Income Parents: A Family/Intergenerational Approach"

Harvard University, Cambridge, Massachusetts \$100,000
Toward the costs of a project entitled "Disseminating Information and Technical Assistance about Family Support and Education Programs Effectiveness and Evaluation Strategies"

Equal Opportunity continued

New Haven Public Schools, Connecticut <i>Toward the costs of planning the organization of a Consortium for Urban Education, in conjunction with the Southern Connecticut State University School of Education and the Yale Child Study Center</i>	\$25,000
Institute for Education Leadership, Washington, D C <i>Toward the costs of reprinting and disseminating the publication "New Partnerships Education's Stake in the Family Support Act of 1988"</i>	\$11,000
Joint Center for Political Studies, Washington, D C <i>Toward the costs of a study entitled "Poverty and Public Policy American and European Experiences Compared"</i>	\$56,300
<i>Toward the costs of a television documentary on efforts to bring disadvantaged inner city youth into the legitimate labor market</i>	\$50,000
<i>Toward the costs of a research project comparing public policies toward the poor in Europe, Canada, and the United States</i>	\$81,850
Local Initiatives Support Corporation (LISC), New York, New York [1989 - \$250,000] <i>To enable LISC to increase its support of locally based, community development corporations</i>	\$250,000
Minority Female Single Parent Program (MFSP) [1989 \$850,000, in addition to remaining funds from prior year appropriations] <i>To support evaluation research of the MFSP program and dissemination of the findings</i>	
Foundation administered projects <i>Development program for minority group female single parents</i>	\$1,120,535
<i>Toward the costs of investigating child care policy issues and evaluation designs</i>	\$176,000
State of New Jersey, Department of Human Services, Trenton <i>Toward the costs of planning a Developmental Child Care Demonstration Program</i>	\$45,000
Mississippi Action for Community Education, Greenville <i>Toward the costs of its activities regarding low income housing development</i>	\$50,000
Morehouse College, Atlanta, Georgia <i>Toward the costs of planning three meetings of researchers/policy activists concerned with the most pressing issues confronting African American males</i>	\$25,000
NAACP Legal Defense and Educational Fund, New York, New York <i>Toward the costs of establishing a Poverty Advocates Research Council</i>	\$100,000

New School for Social Research, New York, New York <i>Toward completion of a national assessment of community economic development organizations</i>	\$100,000
Ontario Social Development Council, Toronto, Canada <i>For use by its Self Employment Development Initiatives toward the costs of a workshop on expanding access to the self employment option for less advantaged entrepreneurs</i>	\$40,000
Parents United for the D C Public Schools, Washington, D C <i>Toward the costs of expanding its networking and research capabilities and assisting with the implementation of the recommendations of the D C Committee on Public Education</i>	\$25,000
Public/Private Ventures, Philadelphia, Pennsylvania [1989 \$250,000] <i>To support a five year follow-up study of participants in the California Conservation Corps</i>	\$250,000
Tomas Rivera Center, Claremont, California [1989 \$250,000] <i>To enable the center to extend its policy analysis on the needs of Hispanics through a new branch office in Texas</i>	\$250,000
Social Science Research Council, New York, New York [1989 \$940,320] <i>To continue support for the council's multyear program to mobilize the academic community for interdisciplinary research on the underclass</i>	\$940,320
State University of New York at Albany <i>Toward the costs of a study entitled "Proposed Pilot Study on the Changing Character of Inner-City Neighborhoods"</i>	\$50,000
Stony Brook Foundation, New York <i>Toward the costs of (1) reprinting the main policy paper of the "Policy and Action Network," an independent group of university and college faculty concerned with improving minority group representation in higher education, and (2) developing a videotape from footage of the group's conference discussions</i>	\$5,000
University of California-Berkeley <i>Toward the costs of creating and implementing a long range educational plan for the Oakland Unified School District</i>	\$100,000
<i>Toward the costs of a conference on the role of local government in attacking persistent poverty</i>	\$7,000

Equal Opportunity continued

Toward the costs of an ethnographic study of factors influencing differences in academic achievement among blacks, Hispanics, and Asian Americans \$65,360

University of Chicago, Illinois \$9,030
Toward the costs of a study entitled "Minorities and the Underclass Debate Welfare Behavior in Poor Chicago Neighborhoods"

University of Michigan, Ann Arbor \$11,960
For use by its Law School in designing a Program in Legal Advocacy for the Underclass

Toward the costs of using Census Tract Information appended to the Panel Study of Income Dynamics (PSID) data records to determine the effects of growing up in depressed areas on individual life chances \$75,000

Urban Institute, Washington, D C \$450,000
[1989 \$450,000]
To continue support for its policy research on the urban underclass and dissemination of the findings to policymakers, community leaders, and the media

Women's Legal Defense Fund, Washington, D C \$250,000
[1989 \$250,000, in addition to remaining funds from prior year appropriations]
To continue assistance for the fund's National Family Law and Policy Project, directed to increasing the number and level of child support awards

Protecting Basic Rights

American Civil Liberties Union Foundation, New York, New York \$300,000
[1989 \$300,000]
To enable the ACLU to continue its role in enforcing the Voting Rights Act and, where necessary, to conduct litigation to secure and protect the voting rights of minority-group citizens

Brookings Institution, Washington, D C \$50,000
Toward the costs of a 1990 conference on "The Voting Rights Act 25 Years Later Implementation, Effects, and Implications for Law and Public Policy"

Citizens' Commission on Civil Rights, Washington, D C \$40,000
To monitor and disseminate a comprehensive report on the record of enforcement in the major areas of civil rights during the first year of the Bush administration

Harvard University, Cambridge, Massachusetts \$25,000
Toward the costs of a symposium on "The Minority Economic Community"

Hispanics in Philanthropy, San Francisco, California \$20,000
Toward its general operating expenses

Joint Center for Political Studies, Washington, D C \$660,000
[1989 - \$660,000]
To continue support for the center's research and public policy analysis regarding issues of particular importance to black Americans, and for its special series of roundtable discussions on persistent poverty and the underclass

Joint Center for Political Studies, Washington, D C \$48,800
Toward the costs of a study entitled "Black Americans and International Law"

NAACP Special Contribution Fund, New York, New York \$600,000
[1989 - \$600,000, in addition to remaining funds from prior year appropriations]
To continue support for the NAACP's employment litigation and affirmative action activities and to help the fund initiate new fund raising strategies

National Coalition on Black Voter Participation, Washington, D C \$75,000
Toward the costs of its 1990 Census Awareness Project

National Conference of Black Mayors, Atlanta, Georgia \$2,500
Toward the costs of the 1989 annual conference

National Foundation for Infectious Diseases, Washington, D C \$20,000
Toward the costs of a fellowship for a minority-group physician to conduct research in tropical medicine

Native American Rights Fund, Boulder, Colorado \$300,000
[1989 \$300,000]
To continue its advocacy, litigation, and technical assistance activities to protect the civil and human rights of American Indians

Original Ballets Foundation, New York, New York \$60,000
To expand the services of its New Ballet School, focused on talented children from minority and economically disadvantaged families, and to undertake a thorough evaluation of its past and present activity

People for the American Way, Washington, D C \$75,000
Toward the costs of its First Vote project

<p>Program to Explore Long-Term Implications of Changing Gender Roles <i>[1988 - \$800,000, in addition to remaining funds from prior year appropriations]</i> <i>To further understanding of the relationship between changing gender roles and new patterns of family life and work in postindustrial societies</i></p>		<p>E. Denise Riley, London School of Economics and Political Science, England, and Joan W. Scott, Institute of Advanced Study, Princeton, New Jersey <i>For a study entitled "Working Mothers in Comparative, Historical Perspective"</i></p>	\$62,000
<p>Ella L. Bell, Tom C. Denton, and Stella M. Nkomo, North Carolina <i>For a study entitled "Life Journeys of Black and White Women in Corporations"</i></p>	\$70,000	<p>Sarah Lawrence College, Bronxville, New York <i>Toward the costs of a conference entitled "Women's History and Public Policy"</i></p>	\$10,000
<p>Hester Eisenstein, State University of New York, Buffalo <i>For a study entitled "The Australian Femocrats: Gender, Power and Politics in a Western Social Democracy"</i></p>	\$58,000	<p>Stephanie A. Shields, University of California-Davis <i>For a study entitled "Gender and the Social Meaning of Emotion"</i></p>	\$58,000
<p>Paula England and George Farkas, Texas <i>For a study entitled "Gender and Race in a Segmented Economy: Starting Wages and Wage Trajectories across a Series of Jobs in the Early Career"</i></p>	\$70,000	<p>Foundation-administered project <i>Program support expenses</i></p>	\$40,000
<p>M. Anne Hill and June O'Neill, Baruch College, New York, New York <i>For a study entitled "Women's Occupations: A Comparison of Three Cohorts"</i> <i>(Grant administered by the Research Foundation of the City of New York)</i></p>	\$62,000	<p>Puerto Rican Legal Defense and Education Fund, New York, New York <i>[1989 - \$800,000]</i> <i>To provide stable support for the fund's litigation activities in the field of civil rights, and to help the fund establish financial planning and management practices and initiate fund-raising strategies that will attract new donors</i></p>	\$800,000
<p>Dr. Alison M. Jaggard, Ohio <i>For a study entitled "Feminism and Moral Theory: A Prolegomenon to Ethics for Post-industrial Societies"</i></p>	\$52,000	<p><i>Toward its general operating expenses</i></p>	\$100,000
<p>Rebecca E. Klatch, University of California-Santa Cruz <i>For a study entitled "A Generation Divided: Gender, Politics, and Commitment in the 1960s"</i></p>	\$54,000	<p>Southern Coalition for Educational Equity, Jackson, Mississippi <i>Toward the costs of its Project for the Retention and Increase of Minority Educators</i></p>	\$50,000
<p>Shelly Lundberg, Washington <i>For a study entitled "Gender Roles, Intrafamily Allocation, and Welfare Economics"</i></p>	\$6,000	<p>Southern Education Foundation, Atlanta, Georgia <i>Toward the costs of its Continuing Conference, focused on public policy and education</i></p>	\$50,000
<p>Aihwa Ong, University of California-Berkeley <i>For a study entitled "Gender and Belonging: Citizenship, Acculturation, and Khmer Immigrant Experiences"</i></p>	\$54,000	<p>Southport Institute of Policy Analysis, Connecticut <i>Toward the development of an overall national plan to promote adult literacy</i></p>	\$10,000
<p>Robert A. Pollak, Washington <i>For a study entitled "Gender Roles, Intrafamily Allocation, and Welfare Economics"</i></p>	\$22,000	<p>University of North Texas, Denton <i>Toward the costs of a study entitled "The Politics of Affirmative Action"</i></p>	\$23,180

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.

Facilitating the "Comerization" of Public Schools [1989 - \$1,390,000] <i>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</i>		Yale University, New Haven, Connecticut <i>For use by its Child Study Center to expand utilization of the School Development Program principles</i>	\$410,000
Federal City Council, Washington, D C <i>For use by the District of Columbia Committee on Public Education for implementation of the Comer process in the elementary schools of Washington, D C</i>	\$63,000	National Urban League, New York, New York [1989 - \$615,000] <i>To increase the incidence and quicken the pace of local school reform by strengthening the role of community organizations as sophisticated and constructive catalysts for change on behalf of at-risk children (Grants will be made in subsequent years)</i>	
New Haven Public Schools, Connecticut <i>For support of the Consortium for Urban Education in New Haven</i>	\$50,000	Training Education Leaders to Improve At-Risk Schools [1989 - \$511,000] <i>To create pilot academies that train principals and other education leaders for the challenge of managing schools that serve at-risk children (Grants will be made in subsequent years)</i>	
Southern Connecticut State University, New Haven <i>For support of the Consortium for Urban Education in New Haven, Connecticut</i>	\$100,000		

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

Arms Control Association, Washington, D C [1989 - \$250,700] <i>To continue support for the annual "New Faces" conference series jointly sponsored by the Arms Control Association (ACA) and the International Institute of Strategic Studies (IISS), London, England</i>	\$250,700	Joint Rockefeller Foundation/ MacArthur Foundation Task Force on the Future of the U S Defense Budget <i>Consulting fees and travel expenses of the task force</i>	\$50,000
Earthview Foundation, New York, New York <i>Toward the costs of a research project on public attitudes concerning planetary security issues</i>	\$55,000	Mediators Foundation Inc , Santa Monica, California <i>Toward the costs of the PARTNERS project</i>	\$100,000
Harvard University, Cambridge, Massachusetts <i>For meetings to determine the willingness of Middle East countries to discuss working together toward common environmental goals in the Gulf of Aqaba</i>	\$100,000	Natural Resources Defense Council, Washington, D C <i>For a joint Natural Resources Defense Council/ Soviet Academy of Sciences workshop and experiment on verification of limitations on nuclear weapons at sea</i>	\$90,000
Institute for East-West Security Studies, New York, New York [1989 - \$249,900] <i>To enable the institute to establish a Third World dimension to its East-West Task Force on Seeking Security in the 1990s</i>	\$249,900	Parliamentarians Global Action for Disarmament, Development and World Reform, New York, New York <i>Toward the cost of the Nuclear Test Ban Non-Proliferation Project</i>	\$100,000

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

The Africa Fund, New York, New York <i>Toward the costs of producing a one-hour public television documentary, "Censored Where did the Apartheid Story Go?" for presentation as a "South Africa Now" special</i>	\$100,000	Editorial Projects in Education, Washington, D C [1989 \$250,000] <i>To help launch a national monthly magazine for teachers</i>	\$250,000
Africa News Service, Inc , Durham, North Carolina <i>Toward its general support</i>	\$50,000	Federal City Council, Washington, D.C <i>For use by the District of Columbia Committee on Public Education in implementing the Comer School Development Program in ten elementary schools in the district</i>	\$23,700
American Civil Liberties Union Foundation, New York, New York <i>For use by its Reproductive Freedom Project in preparing and conducting litigation</i>	\$100,000	Foundation-administered projects <i>Costs of a Foundation-conducted Agricultural Media Seminar on important research in ensuring adequate world food supplies</i>	\$77,500
Ashoka Innovators for the Public, Washington, D C [1989 - \$1,200,000] <i>To continue general support for its program of fostering social change in Third World countries through awards to public entrepreneurs</i>	\$1,200,000	<i>Costs of a treatment description and related videotapings for the Foundation's proposed "how to" videocassette series on implementing the school improvement methodology developed by James Comer of Yale University</i>	\$57,000
Asian American Legal Defense and Education Funds, New York, New York <i>For use by the New York City Civil Rights Coalition to support a course on Civil Rights and Race Relations at New Utrecht High School in Bensonhurst, Brooklyn</i>	\$15,000	<i>Foundation-sponsored steps to increase philanthropic resources</i>	\$150,000
Bryant Park Restoration Corporation, New York, New York <i>Toward the construction of a permanent Music and Dance Half-price Tickets Booth at Bryant Park</i>	\$50,000	<i>Rockefeller Foundation Matching Gift Program</i>	\$35,000
Center for Women Policy Studies, Washington, D C <i>In support of the second phase of its Reproductive Laws for the 1990s project</i>	\$100,000	The Foundation Center, New York, New York [1989 \$210,000] <i>To continue support for the center's efforts to sustain and improve its services as an agency providing information to the public about U S philanthropic foundations</i>	\$210,000
Council on Foundations, Washington, D C <i>In support of its project on Pluralism in Philanthropy</i>	\$50,000	Foundation for the Development of Polish Agriculture (FDPA), Warsaw, Poland <i>In support of an international task force to review the status of Polish agriculture and the country's food economy</i>	\$80,800
<i>Toward its 1989 operating expenses</i>	\$24,700	Foundation for Social Innovations San Francisco, California <i>Toward its start up and first year operating costs</i>	\$25,000
		Friends of the Institute for a Democratic Alternative for South Africa, New York, New York <i>Toward its work to encourage the evolution of a democratic, nonracial society in South Africa</i>	\$100,000

Other Interests and Initiatives continued

Fund for Education in South Africa, New York, New York <i>Toward the start-up of the Fund for Education in South Africa</i>	\$100,000
Independent Sector, Washington, D C <i>Toward general support</i>	\$7,400
Indicator Media Training Project, Johannesburg, South Africa <i>Toward its 1989–90 operating costs</i>	\$35,000
Institute of Development Studies, University of Sussex, England <i>Toward the costs of a research project focused on macroeconomic and social policies for a sustainable democracy in Chile</i>	\$12,000
The InterAction Council, New York, New York <i>Toward the costs of a meeting of the European Forum on Forest Protection</i>	\$12,000
International Center for Maize and Wheat Improvement (CIMMYT), Mexico <i>Toward the costs of producing in book form the memoirs of Norman E Borlaug</i>	\$96,000
International Center of Photography, New York, New York <i>Toward expansion of its activities, including community outreach programs</i>	\$25,000
International Human Rights Committee, San Francisco, California <i>For use by its United States South Africa Sister Community Project for a conference to be held in spring 1990, in conjunction with the University of California at Berkeley, on forced removals, depopulation, and denationalization in South Africa</i>	\$20,000
Investor Responsibility Research Center, Inc , Washington, D C <i>To develop objective data which will be distributed to the general public through books, press releases and public testimony in an effort to inform the public on global environmental problems</i>	\$100,000
Manhattan Institute for Policy Research, New York, New York <i>Toward the overall costs of a conference entitled "Making Schools Better—The Challenge and Opportunity for New York City"</i>	\$10,000
Manpower Demonstration Research Corporation, New York, New York [1989 \$150,000] <i>To support an assessment in several states of how school systems are responding to the challenge of providing educational services to welfare recipients as mandated by recent welfare reform legislation</i>	\$150,000

Market Theatre, New York, New York [1988 - \$150,000] <i>To help an established forum for social change in South Africa, the Market Theatre in Johannesburg, expand its outreach activities with a workshop/laboratory project</i>	\$150,000
Michigan State University, East Lansing <i>To study the feasibility of developing a summer school leadership academy for principals and other education leaders in urban schools</i>	\$29,779
National AIDS Network, Washington, D C <i>Toward operating costs of the National AIDS fund</i>	\$100,000
National Charities Information Bureau, New York, New York <i>Toward its 1989–90 operating budget</i>	\$5,000
New York City Government, New York <i>For support for the New York City Mayoral Transition Team in its research and identification of candidates for positions in New York City government</i>	\$12,500
New York Interface Development Project, New York <i>Toward the transition of Joseph A Fernandez to Chancellor of Schools for New York City</i>	\$35,000
New York Regional Association of Grantmakers, New York <i>Toward general support</i>	\$7,125
Nonprofit Coordinating Committee of New York, New York <i>Toward general operating expenses</i>	\$30,000
OEF International, Washington, D C <i>Toward the costs of a project that will help build an African regional network to promote strategies linking law and development to empower women</i>	\$65,000
Operation Crossroads Africa, Inc , New York, New York <i>Toward continuation of its program of internships in international development for minority graduate students</i>	\$100,000
Overseas Development Network, Cambridge, Massachusetts <i>For continued expansion and improvement of its educational programs and outreach activities</i>	\$50,000
Pesticide Education Center, San Francisco, California <i>To establish a network for dissemination of pesticide information to the farm worker community</i>	\$100,000

Other Interests and Initiatives continued

Phillips Brooks House Association, Inc , Cambridge, Massachusetts <i>To establish a new World Teach Program in Costa Rica</i>	\$18,000
Research Foundation of the City University of New York, New York <i>For use by Hunter College toward the costs of a study entitled "Latinos in a Changing U S Economy"</i>	\$57,500
Rockefeller University, New York, New York <i>Toward the costs of the John D Rockefeller 150th Anniversary Celebration</i>	\$100,000
Rutgers University, New Brunswick, New Jersey [1989 \$300,000] <i>To help the university introduce a course in civic education and community service as an undergraduate academic requirement</i>	\$300,000
<i>For a study to be conducted at the Eagleton Institute of Politics entitled, "Election 1989— The Abortion Issue in New Jersey and Virginia"</i>	\$35,000
South African Committee for Higher Education Trust (SACHED Trust), Johannesburg, South Africa <i>To study the feasibility of launching an independent, technical education and training program in South Africa</i>	\$5,000
Southern Connecticut State University, New Haven <i>To study the feasibility of developing a new approach to training principals and other education leaders in urban multicultural schools</i>	\$19,832
Southwest Voter Registration Education Project, San Antonio, Texas <i>For its Willie Velasquez Family Fund</i>	\$15,000
Stanford University, California <i>Toward efforts to institute a community service requirement at Stanford University</i>	\$15,000
Synergos Institute, New York, New York [1988 \$225,000] <i>To support collaborative approaches at the local level to specific problems of poverty in the Third World and the United States</i>	\$225,000
Desmond M Tutu, Archbishop of Capetown, South Africa <i>In recognition of his work furthering peace and justice in South Africa, and in troubled countries throughout the world</i>	\$50,000

United Nations Association of the United States of America, Washington, D C <i>Toward the costs of a project to re examine the mission and mandate of UNESCO entitled "Revitalizing International Scientific and Intellectual Cooperation"</i>	\$20,000
University of New Mexico, Albuquerque <i>To study the feasibility of developing a new approach to training principals and other education leaders in multi ethnic schools serving at risk youths</i>	\$25,000
Women and Foundations/Corporate Philanthropy, New York, New York <i>Toward 1989-90 general operating expenses</i>	\$25,000
The Youth Project, Washington, D C <i>In support of the Charles Bannerman Memorial Fellowship Program</i>	\$25,000

Rockefeller Foundation Archives

Rockefeller University, New York, New York [1989 \$395,000] <i>For the operation of the Foundation's archives at the Rockefeller Archive Center</i>	\$395,000
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International Relations

<i>This program was discontinued in 1986</i>	
Institute of International Education, New York, New York <i>Toward the costs of a program for developing international relations expertise in China</i>	\$100,000
Project on Trade Policy in Developing Countries [1986 \$975,000]	
Foundation administered project <i>Payment to authors and other expenses related to a project on trade and development in sub Saharan Africa</i>	\$10,000

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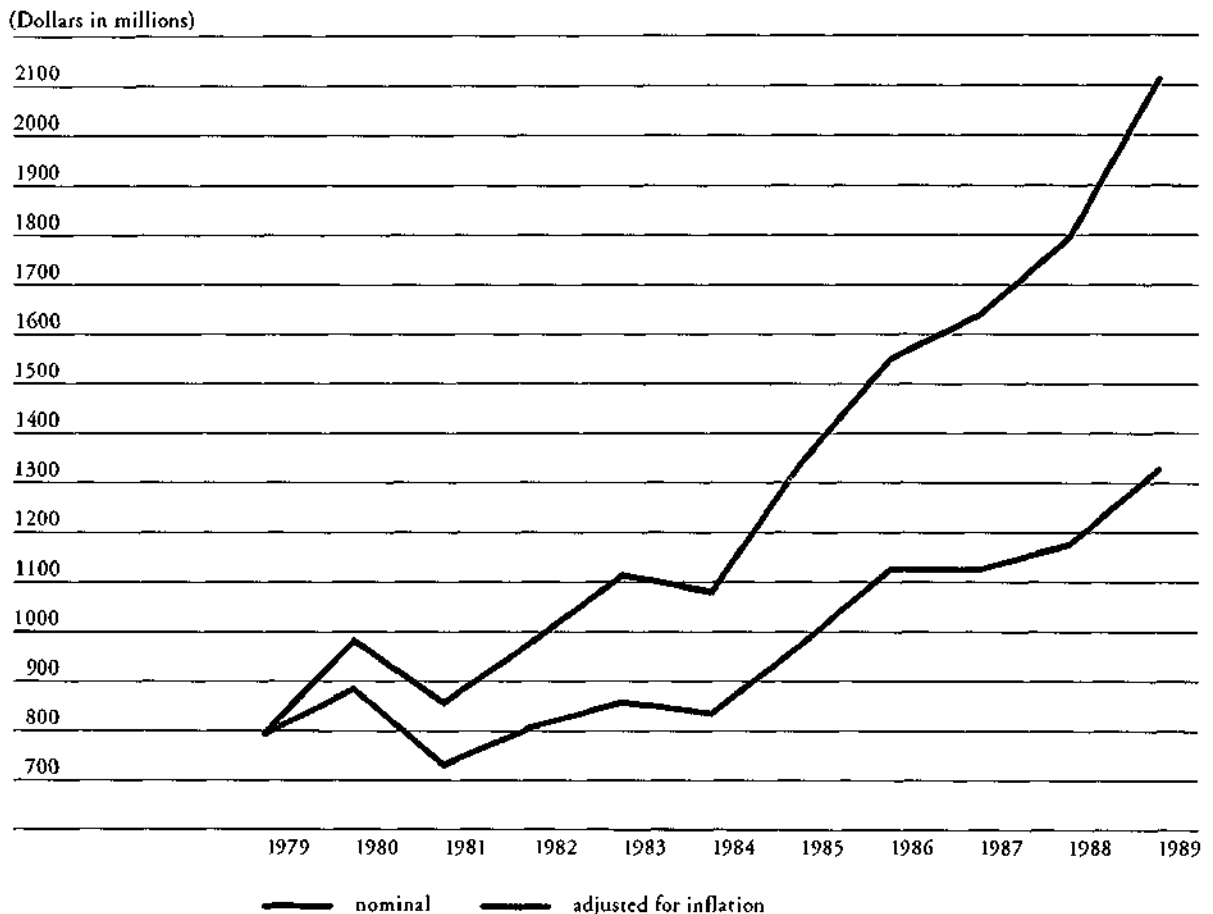
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Financial Report

The decade of the 1980's was a rewarding period for investment returns. High rates of return enabled the Foundation to spend over \$550 million on program activities and still increase assets from \$793 million at the end of 1979 to \$2,111 million at the end of 1989—a 166 percent gain. The following exhibits describe the Foundation's current investment program and put 1989 results into 10-year historical perspective.

Asset Growth

The market value of the Foundation's investments increased 17.3 percent during 1989. The year-end market value of \$2,111 million was a record level for the Foundation. The graph below shows growth in asset values over the past 10 years. The top line shows assets in nominal dollar terms; the bottom line shows assets adjusted for inflation. Nominal assets grew at a 10.3 percent rate over the decade. Assets adjusted for inflation grew at a 5.3 percent rate.



Asset Mix

Diversification among asset classes is an important element of the Foundation's investment program. Diversified portfolios are more efficient than undiversified portfolios, i.e. the expected return to risk ratios are better for diversified portfolios. As the table indicates, the Foundation has commitments to six major asset classes.

	December 31, 1989		December 31, 1988	
	\$ Millions	Percent	\$ Millions	Percent
Equities	\$ 1,101	52.1%	\$ 966	53.7%
Bonds	245	11.6	230	12.8
Cash	219	10.4	255	14.2
Foreign Securities	320	15.2	155	8.6
Real Estate	141	6.7	123	6.8
Venture Capital	85	4.0	71	3.9
	\$2,111	100%	\$1,800	100%

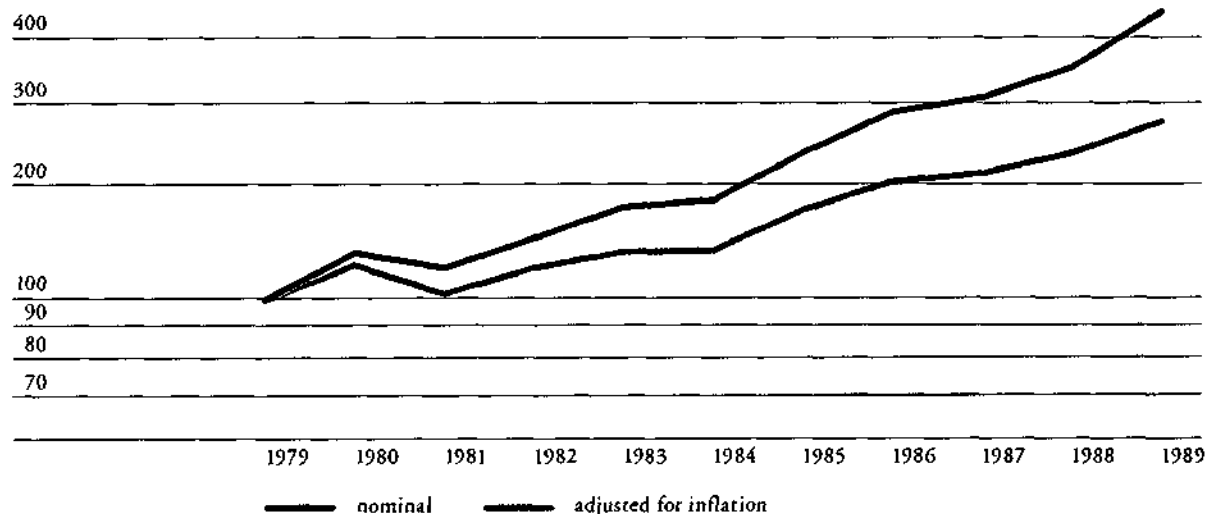
Investment Returns

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 1989 was +23.1 percent. Cumulative returns for the past ten years are shown by the top line in the graph below. The average compound rate of return for the ten year period was 16.1 percent. Adjusted for inflation, the compound rate of return was 10.8 percent.

(Index: 1979=100, Ratio Scale)

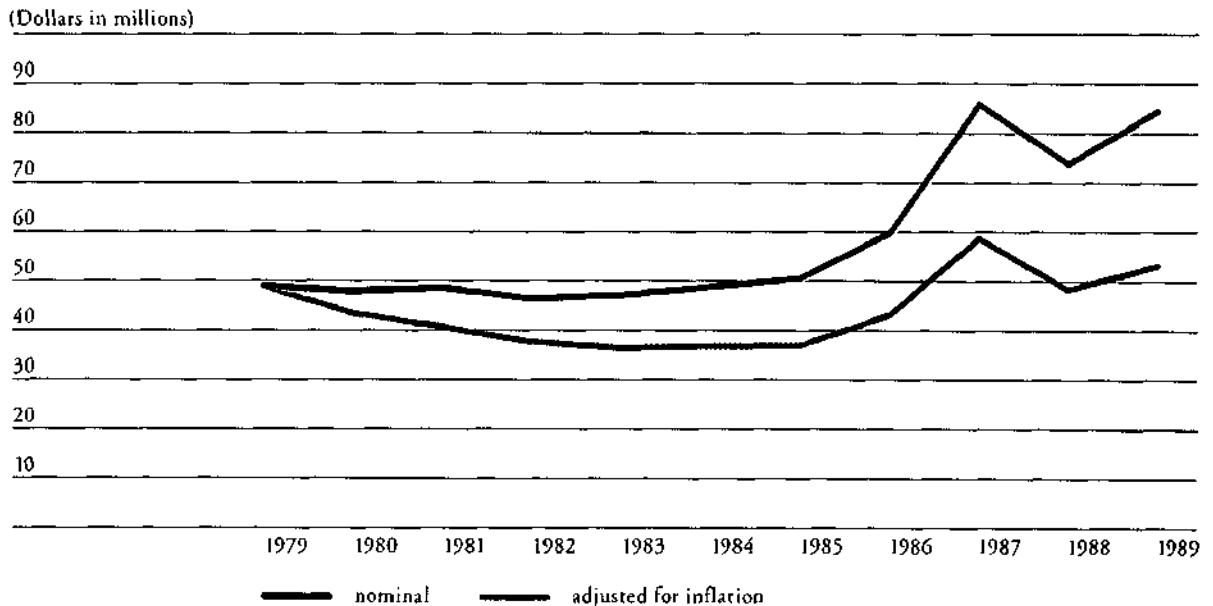


Investment Managers

The Foundation had four equity managers at the end of 1989: Concord Capital, Geewax Terker, Rosenberg Institutional Equity Management, and Wells Fargo Investment Advisors. Bonds are managed by three firms: Rosenberg Capital, Security Capital, and Wells Fargo. Foreign securities are managed by Emerging Markets Management, State Street Bank, and Wells Fargo. The Foundation has investments in nine real estate partnerships and nineteen venture capital partnerships. Cash reserves are managed internally. Northern Trust is custodian for domestic assets.

Spending

Spending in 1989 totalled \$84.4 million, up 14.5 percent from the \$73.7 million spent in 1988. The graph below places 1989 spending into 10-year historical perspective. The graph indicates that spending, both nominal and adjusted for inflation, has increased sharply since 1985. This reflects the substantial increases in asset values.



Expenditures by Categories

Expenditures by categories for the three years 1987-1989 are shown in the table below.

	1989		1988		1987	
	\$ Millions	Percent	\$ Millions	Percent	\$ Millions	Percent
Grants and Operations:						
Agricultural Sciences	\$14.3	17.0%	\$ 9.8	13.3%	\$ 9.7	11.3%
Arts & Humanities	13.6	16.1	12.4	16.8	8.8	10.3
Equal Opportunity	13.5	16.0	12.5	17.0	12.4	14.5
Health Sciences	10.5	12.4	10.6	14.4	9.5	11.1
Population Sciences	8.6	10.2	7.1	9.6	15.4	18.0
Global Environment	0.4	0.5	-	-	-	-
Special Programming	4.0	4.7	4.3	5.8	1.9	2.2
School Reform	1.6	1.9	-	-	-	-
International Security	0.5	0.6	-	-	-	-
Special Interests & Explorations	4.5	5.3	4.2	5.7	6.6	7.7
Education for Development	-	-	0.1	0.1	0.3	0.3
International Relations	0.3	0.4	1.0	1.4	3.2	3.7
Interprogram*	2.9	3.4	2.6	3.5	3.1	3.6
Subtotal	74.7	88.5	64.6	87.6	70.9	82.7
General Administration	8.1	9.6	6.4	8.7	5.7	6.7
Major Renovation and Equipment	0.1	0.1	0.3	0.4	1.4	1.6
Federal excise tax paid for previous year	1.5	1.8	2.4	3.3	7.7	9.0
Total	\$84.4	100.0%	\$73.7	100.0%	\$85.7	100.0%

*Bellagio Study and Conference Center and Rockefeller Archive Center.

1989-88 Financial Statements

**Report of Ernst & Young
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, 1989 and 1988, and the related statements of operations and changes in principal fund and 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, 1989 and 1988, and the results of its operations, its changes in principal fund and its changes in financial position for the years then ended in conformity with generally accepted accounting principles.

Ernst & Young
New York, New York
February 16, 1990

Statements of Assets, Obligations and Principal Fund

December 31, 1989 and 1988

	1989	1988
Assets		
Investments (Note 1)	\$2,117,301,168	\$1,792,590,743
Cash	1,494,041	183,066
Accounts receivable (primarily security sales)	4,745,885	26,715,680
Dividends and interest receivable	21,449,381	16,574,259
Refundable federal excise tax (Note 2)	83,337	4,341,710
Property—at depreciated cost (Note 3)	2,239,345	1,982,030
Other assets (Note 4)	4,934,000	3,083,000
Total assets	\$2,152,247,157	\$1,845,470,488
Obligations and Principal Fund		
Accounts payable and accrued liabilities (primarily security purchases)	\$ 25,451,634	\$ 35,062,989
Federal excise tax payable (Note 2)	-	238,810
Deferred federal excise tax (Note 2)	3,164,315	1,353,668
Appropriations by the Trustees, approved for specific grantees/purposes but not yet paid (Note 5)	56,666,001	44,559,577
Total obligations	85,281,950	81,215,044
Principal fund:		
Appropriations by the Trustees (Note 5):		
For allocation to future grantees	35,410,114	27,956,283
Budget for operations and new grants of the following year	109,416,350	102,580,000
	144,826,464	130,536,283
Unappropriated	1,922,138,743	1,633,719,161
Total principal fund	2,066,965,207	1,764,255,444
Total obligations and principal fund	\$2,152,247,157	\$1,845,470,488

See accompanying notes.

Statements of Operations and Changes in Principal Fund

Years ended December 31, 1989 and 1988

	1989	1988
Dividends	\$ 32,746,665	\$ 23,886,262
Interest	61,457,168	71,864,480
Other	340,600	298,343
	94,544,433	96,049,085
Realized gain on sale of marketable securities	216,368,692	66,793,211
	310,913,125	162,842,296
Less: investment expenses	5,969,642	5,862,644
Net realized investment income	304,943,483	156,979,652
Less: provision for federal excise tax (Note 2)	2,952,008	1,572,331
Less: approved grants, and program and administrative costs	92,853,637	77,975,889
	209,137,838	77,431,432
Increase in unrealized appreciation of marketable securities net of provision for deferred federal excise tax — 1989: \$1,910,000; 1988: \$1,144,000 (Note 1)	93,571,925	77,145,879
Principal fund at beginning of year	1,764,255,444	1,609,678,133
Principal fund at end of year	\$2,066,965,207	\$1,764,255,444

See accompanying notes.

Statements of Changes in Financial Position

Years Ended December 31, 1989 and 1988

	1989	1988
Sources of Cash		
Net realized investment income	\$304,943,483	\$156,979,652
1987 Federal Excise Tax refund from IRS	4,341,109	—
Total sources of cash	309,284,592	156,979,652
Applications of Cash		
Expenditures for grants and operations:		
Agricultural Sciences	14,302,566	9,784,460
Arts & Humanities	13,555,026	12,369,554
Equal Opportunity	13,522,660	12,564,026
Health Sciences	10,545,377	10,572,418
Population Sciences	8,564,683	7,092,684
Global Environment	402,993	—
Special Programming	3,984,597	4,348,100
School Reform	1,617,569	—
International Security	484,850	—
Special Interests & Explorations	4,501,857	4,191,075
Education for Development	11,711	83,355
International Relations	328,092	1,009,518
Interprogram	2,865,183	2,585,953
	74,687,164	64,601,143
General administrative expenditures	8,066,299	6,392,419
Special maintenance—Bellagio Center	102,065	309,809
Subtotal	82,855,528	71,303,371
Federal excise tax paid (Note 2):		
For previous year	196,510	—
For estimated taxes for current year	3,179,700	1,330,000
	3,376,210	1,330,000
Securities and repurchase agreement transactions, exclusive of realized gains	279,225,197	88,267,222
Net change in accounts receivable, dividends and interest receivable, and accounts payable and accrued liabilities	(57,483,318)	(3,984,536)
Total applications of cash	307,973,617	156,916,057
Increase in cash	1,310,975	63,595
Cash balance at beginning of year	183,066	119,471
Cash balance at end of year	\$ 1,494,041	\$ 183,066

See accompanying notes.

Notes to Financial Statements

December 31, 1989 and 1988

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 are recorded at appraised value, when available; and when not available, are recorded at cost and adjusted for the Foundation's share of the limited partnership income or loss.

	December 31, 1989		December 31, 1988	
	Cost	Market Value	Cost	Market Value
Marketable securities:				
Repurchase agreements	\$ 16,000,000	\$ 16,000,000	\$ 11,100,000	\$ 11,100,000
U.S. Government obligations	256,174,911	260,446,550	222,849,212	219,448,953
Money market funds	69,068,149	69,068,149	48,858,762	48,851,488
Foreign currency—short-term	209,274	214,839	28,690	28,690
Certificates of deposit	53,009,201	54,980,107	12,999,422	13,228,484
Corporate notes	49,377,499	50,429,648	59,323,713	59,638,316
Corporate bonds	58,985,043	60,130,973	60,149,551	59,271,908
Other investments	1,296,910	450,000	1,296,910	450,000
Preferred stock	463,814	514,705	212,722	192,714
Common stock*	1,211,804,602	1,329,459,802	1,136,550,405	1,189,988,908
Sub-total	1,716,389,403	1,841,694,773	1,553,369,387	1,602,199,461
Limited partnership interests	248,216,063	275,606,395	182,010,882	190,391,282
Total	\$1,964,605,466	\$2,117,301,168	\$1,735,380,269	\$1,792,590,743

*Common stock includes \$192,405,243 and \$545,140,315 in money market funds attributable to an arbitrage of S&P 500 Index Futures versus the S&P 500 on December 31, 1989 and December 31, 1988, respectively.

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, 1989 and 1988, 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 on a straight-line basis over the lives of the respective assets or amortized over the term of the lease. The net change in the property account in 1989 was caused by additions of \$943,422 and a decrease of \$686,107 attributable to depreciation and amortization. Depreciation and amortization totalled \$700,609 in 1988.

4. Pension, Post-retirement Health Care and Trusteed Savings Plans

The Foundation maintains a defined benefit pension plan for regular salaried employees who are at least 21 years old and have completed one year of service or have attained the age of 40. The Plan provides retirement benefits based on years of service and final-average pay, with benefits after retirement subject to increase under a cost-of-living augmentation formula. Plan assets are invested in a diversified portfolio of common stocks and fixed-income securities.

Selected information on the Plan's funded status and the amounts recognized in the Foundation's statement of financial position at December 31 follows.

	1989	1988
Plan assets at fair value	\$52,893,000	\$46,372,000
Less: Projected benefit obligation	(32,039,000)	(29,414,000)
Funded status—surplus	\$20,854,000	\$16,958,000
Prepaid pension cost included in other assets	\$ 4,934,000	\$ 3,083,000

Program and administrative costs incurred in 1989 and 1988 were reduced by a net pension credit of \$1,851,000 and \$1,491,000 respectively.

The projected benefit obligation for the Plan was determined using the assumed discount rate of 8.5% (9.0% at December 31, 1988) 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 \$232,114 for 1989 and \$205,880 for 1988.

The Foundation provides certain health care and life insurance benefits for retired employees. The cost of providing these benefits is recognized by expensing the related annual insurance premiums.

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, 1989	\$44,559,577	\$130,536,283	\$175,095,860
Approved grants, and program and administrative costs	94,541,758	(94,541,758)	-
Lapses and refunds	(332,574)	(584,411)	(916,985)
Expenditures for grants and operations	(82,886,410)	-	(82,886,410)
Subtotal	55,882,351	35,410,114	91,292,465
1990 Budget	783,650	109,416,350	110,200,000
Balance, December 31, 1989	\$56,666,001	\$144,826,464	\$201,492,465

6. Long-term leases

At December 31, 1989, base rental commitments under non-cancellable leases for headquarters office space aggregate approximately \$3,090,000 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 \$510,000 and under the second approximately \$215,000 during the remaining period of the leases. Rental expense included in the statement of operations was approximately \$1,118,000 in 1989 and \$1,076,000 in 1988.

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Evelyn Majidi
Program Associate

Warren Weaver Fellows

The Warren Weaver Fellows Program was begun this year to give exceptionally talented individuals first-hand experience in the field of philanthropy and to give 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.

Kamal Ahmad
"Microenterprise, Non-Governmental Organizations, and Participatory Development"

Stephen Bass
"Tropical Forestry"

Elisabeth Biemann
"Agricultural Policy in Africa"

Margaret Chirgwin
"Islam, Health and Population"

Hadi Dowlatabadi
"Energy and the Global Environment"

Karin Hyde
"Female Education in Sub-Saharan Africa"

Kate Roth Knull
"Video and Rockefeller Foundation Programs"

Timothy Weiskel
"Keeping Score on the Global Environment"

Dauna Williams
"The Role of Litigation and Advocacy Groups in Combatting Persistent Poverty"

Constance Wolf
"Reaching At-Risk Students Through the Arts and Humanities"

Report of the Secretary

The annual meeting of the board of trustees for 1989 was held on March 28, and regular meetings of the board were held on June 15, September 10–11, and December 12.

Herman E. Gallegos retired from the board, effective March 28. He was elected a trustee in 1979 and served on the Audit, Budget and Compensation, Finance, and Nominating Committees.

Victor H. Palmieri retired from the board, effective March 28. He was elected a trustee in 1979 and served as a member of the Executive Committee and as chairman of the Finance and Nominating Committees.

The following trustees were elected, effective June 15:

Alan Alda, actor, writer, director;
Henry Cisneros, chairman and chief executive officer, Cisneros Asset Management Company;
Peggy Dulany, president, Synergos Institute;
Daniel P. Garcia, partner, Munger, Tolles and Olson; and
Ronald E. Goldsberry, general manager, Plastic Products Division, Ford Motor Company.

Kenneth Prewitt was elected senior vice president in April. He joined the Foundation as vice president in 1985.

Nan S. Robinson, who joined the Foundation as director for administration in 1981 and was appointed vice president for administration that year, took a terminal leave, effective August 1.

Sally A. Ferris, who joined the Foundation as assistant director for equal opportunity in 1988, was elected director for administration, effective August 1.

Information for Applicants

The work of the Rockefeller Foundation is in three principal areas: international science-based development and, in the United States, 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 improving 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 Foundation-supported 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 effort 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

As a matter of policy, the Foundation does not give or lend money for personal aid to individuals; contribute to the establishment of local hospitals, churches, schools, libraries, or welfare agencies, or to their building and operating funds; finance altruistic movements involving private profit; or support attempts to influence legislation.

In addition, 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.

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.

Proposals and Applications

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 plan and objectives;

- a comprehensive plan for total funding during and, where applicable, after the proposed grant period; and
- a listing of the applicant's qualification and accomplishments.

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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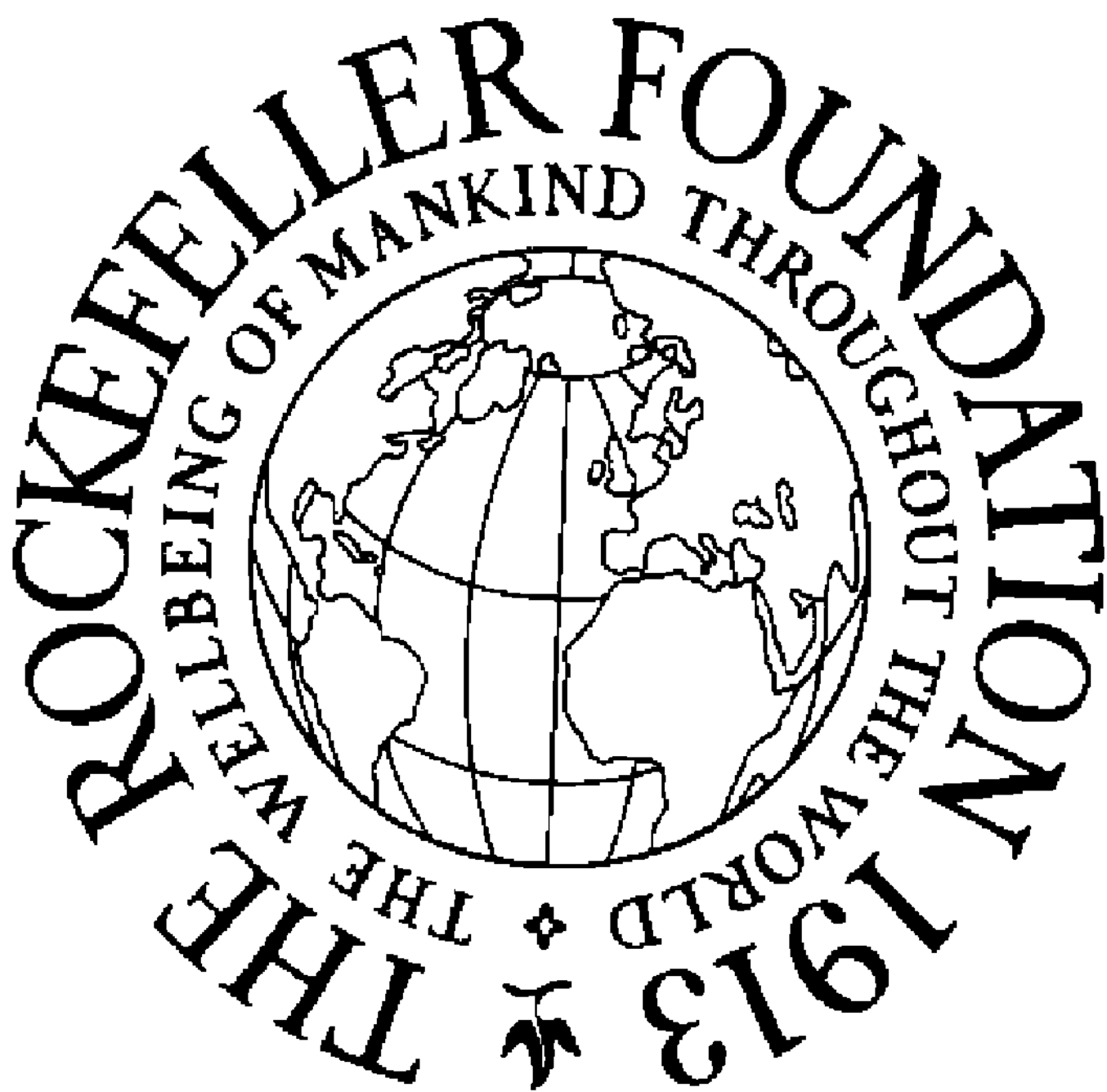
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