

**PRESIDENT'S REVIEW
& ANNUAL REPORT
1992**

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**1133 Avenue of the Americas
New York, New York
10036-6759 USA**

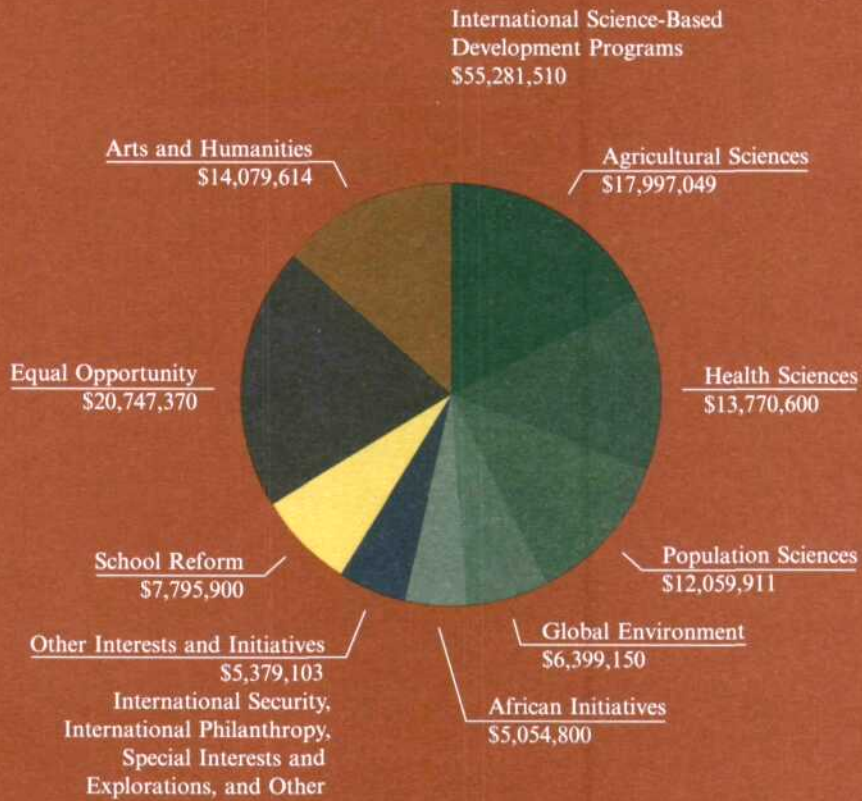
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The Rockefeller Foundation 1992 Annual Report

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, the arts and humanities, and equal opportunity. Within science-based development, the focus is on the developing world and emphases are on the global environment; on the agricultural, health, and population sciences; and on a very limited number of special African initiatives. The Foundation also has smaller grant programs in international security and U.S. school reform. • 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 57.

Grants and
Fellowships 1992



This chart depicts - by program and division - the grants, appropriations, program-related investments and fellowships approved in 1992 totalling \$103,283,497.

The
President's
Statement

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SERBIAN SOLDIER BEING HELD IN THE FORMER Yugoslavia for crimes that include rape and genocide described the Serbian operation there as *ciscenje prostora* – the cleansing of the region. “We were told that [it] must be a cleansed Serbian territory . . . that all the Muslims there must be killed. . . . It was an order, and I simply did what I was told.”

This year Los Angeles burned; stores were looted, and flames flickered across the city throughout the night.

At the Foundation's Conference Center in Bellagio, Italy, an Egyptian philosopher said to an American: “Why is the West's version of modernity being used as a yardstick to judge Islam? Implicit in the question whether Islam is capable of modernity or pluralism is an *accusation* – as if you were the prosecutors and we were the accused. . . . I know your civilization very well and your house is not in order.”

In India, in Northern Ireland, in Cambodia, in Somalia, in Iraq, in Israel – in a score of places around the world – people are trapped by old hatreds and diverted in deadly conflicts.

Who among us can say that they are engaged meaningfully in an attempt to forge the common enterprise? Who belongs to the common enterprise?

TWIN
CHALLENGES
EMERGE

A foundation like ours operates primarily on issues with long lead times. But when the magnetic field shifts, every direction must be reevaluated; every course must be reassessed, and some must be re-charted.

When the freeze of the Cold War lifted, there emerged a much more violent and uncertain world than we had hoped to find. Regional conflicts bloody the globe, fueled by ethnic antagonisms whose taproots run deeper than many had understood. And then at the global Conference on Environment and Development at Rio de Janeiro this past summer, the world learned again how interdependent we have all become on this fragile planet, how common are our problems, how inadequate our present institutions are for dealing with them.

We can see emerging now the twin challenges of the next era. The task before us can no longer be defined as a challenge to a single country, culture, or bloc. At issue is human viability on this planet. The challenges that lie at the heart of the common enterprise are framed by these two questions:

Can we find and pursue a path to sustainable development consistent with individual rights and a more equal sharing of the world's resources?

Can we shape the institutions that will allow hostile communities to function together within a single global framework?

The first is a matter of finding the technology, the ideas, and the institutions to let us attain a leveling off of the world's population, and to generate enough energy and grow enough food in ways that less critically burden the environment.

The second is a matter of searching out the ideas and institutions that will allow bitterly inimical groups to bend their energies to the first task rather than to war genocidally and with increasing access to weapons of mass destruction.

The evolution of new ideas is common to both tasks. Ideas shape our institutional arrangements, our sense of what is possible, and our assumptions about how to respond to crisis. These "ideas" are generally more powerful over the long run than we realize. Keynes said it well:

" . . . the ideas of economists and political philosophers, both when they are right and when they are wrong, are more powerful than is commonly understood. Indeed, the world is ruled by little else. Practical men, who believe themselves to be quite exempt from any intellectual influences, are usually the slaves of some defunct economist. Madmen in authority, who hear voices in the air, are distilling their frenzy from some academic scribbler of a few years back. I am sure that the power of vested interests is vastly exaggerated compared with the gradual encroachment of ideas. Not, indeed, immediately, but after a certain interval . . . soon or late, it is ideas, not vested interests, which are dangerous for good or evil."

Who belongs to the common enterprise? To answer this question we need to agree on an "idea" of what the common enterprise is.

INTERLOCKING
TRIANGLE
OF ISSUES

Our growth in numbers and destructiveness is on some general collision course with the capacity of the planet to withstand us and feed us. That trajectory must be engaged and deflected. As Lewis Thomas said, we must move from being the subject of evolution and become its partner, not its victim.

Let us look for a moment at the interlocking triangle of issues that constitutes the core of the sustainable-development challenge: population, food, and energy.

If we assume that the trend toward smaller desired family size associated with development will continue, then quality family planning and related health services made available on a voluntary basis to every man and woman in the world could help the world's fertility rate to decline to the replacement rate of about 2.1 in two to three decades. This

in turn would mean that the world's population would probably level off at about 10 billion by the second half of the twenty-first century. The alternative path – to continue at present fertility rates – probably means leveling off after the end of the twenty-first century at a number closer to 20 billion.

The world community's "idea" of how to approach this issue has been radically transformed over the past two decades by those concerned with basic individual rights and women's reproductive health. To those who were concerned only with numbers, they have demonstrated convincingly that the only basis on which to move forward is that of respect for the dignity, choice, and rights of the woman and the family; this is fundamental as a matter of right, and it is essential as a matter of practicality. No road can lead to a viable macro-outcome which respects human freedom unless it passes first through the microcosm of individual dignity, choice, responsibility for one's actions, and control over one's own body and future. This includes the number of children one chooses to have; the knowledge and tools to raise them so that they survive; one's ability to be self-sufficient in terms of food; and one's access to education and the means with which to escape disease.

Within this philosophical framework, making available quality family planning and associated health services to those women around the world, but especially in Africa and Asia, who presently want but do not have access to such services could lead to a decline in the fertility rate over a decade to three from the present level of about four, or roughly half the distance we must ultimately travel. Helping women's groups, developing countries, international donors, and nongovernmental organizations to work together and mobilize the human, financial, technical, and organizational resources to achieve this will be the major objective of the Foundation's work in population in the years ahead.

The world today produces about twice the amount of food it produced 30 years ago. The next 30 years will require more than another doubling *if* the lower population figure of about 10 billion is attained, and considerably more than doubling if it is not. But even the task of doubling global food production looks more difficult to achieve over the next 30 years than it proved to be over the past 30.

To feed a world population of 10 billion at modest levels of nutrition will require in the neighborhood of four billion metric tons of grain-equivalent per year – roughly 2 1/2 times the present level. But it will, in all likelihood, have to be grown on roughly the same amount of arable land presently available. The logic of this situation means that increasing yield in environmentally sustainable ways must be the central preoccupation of those worrying about the planet's largest and most basic industry – agriculture. An

important part of the Foundation's work must now be to support the careful examination of all the alternatives to determine what approaches to this massive task look promising, for no one can presently discern a path that can take us to a doubling of annual food production in 25-30 years.

The third leg of the triangle is energy. Energy is the key to development: more productive agriculture, industrial production, transportation and distribution, economic growth – all of these depend on energy in various forms to transform raw materials into value-added, income-generating goods. Energy is the fuel which powers growth, and growth is needed to supply growing numbers of people with the minimum necessities of life, to increase the standard of living, and to increase equity.

The challenge is to find an energy paradigm that can be relied upon to fuel this process in environmentally sound ways over the next three decades and that works for the South as well as for the North. While use of fossil fuels such as coal and oil will continue over the foreseeable future, virtually all experts agree that we cannot rely upon them as heavily as we have in the past. The new energy paradigm – the one to which the developed world will have to convert and the one which the developing world will have to espouse – will rely far more than the old on efficiency, renewable sources, and “clean” sources. The challenge is how to help guide this transition so as to maximize development, address questions of equitable access to energy as part of the development process, and minimize the environmental burden as energy consumption around the world grows.

Each leg of this interlocking triangle – food, population, and energy – interacts with the others, though not always in obvious ways. For example, at some stages of development lower population growth may actually be accompanied by higher per capita energy consumption rates, such that a rapidly developing country with stabilizing population may consume more energy overall than a less rapidly developing country with rapidly increasing population. Similarly, producing more food requires more fertilizer; more fertilizer requires more energy; but more energy may tax the environment in ways that result in the loss of fertile land, and hence decrease the land's ability to produce more food.

This triad of issues constitutes a major, long-term agenda for the human race. It will engage, affect, and draw on the resources of every person in every corner of the globe. We are irreversibly committed by circumstance as a species to “managing” ourselves and our relationship with the planet; blundering along without a sense of direction, consequences, and limits will no longer work. And we are committed to doing this through tools of science and technology. Like a ship that has passed the point of no return in its

journey, we are now far beyond the point where it is possible to envision a future without reliance upon complex, interdependent, global patterns of technology for the production of food; we will almost certainly, as a species, engage in the widespread practice of contraception for as long as we continue to exist – that threshold, too, is one to which we can no longer turn back; and neither the vast agricultural and other productive enterprises upon which we are embarked, nor their support systems of storage, transportation, and distribution can survive without a vast global system of energy generation. And the planet itself cannot support health and opportunity unless that system of energy generation and consumption is far more efficient than it is today and significantly more benign in its impact on land, air, water, and plant and marine life. The path to sustainable development will be science-based.

Two critical influences which bear on this interlocking triangle need to be focused and strengthened if the world is to find the path to sustainable development: they are health and female education. Female education correlates highly with income growth and lower fertility rates. And the willingness of poor, rural families to send young girls to school depends in turn on productive farming that is less labor intensive than much that is now practiced in the poorer regions of Africa, Asia, and South America. Health also is associated with income growth and fertility decline: a drop in infant mortality rates is a dramatic leading indicator of a subsequent decline in fertility rates, and is associated with increases in standard of living. Good health and education are themselves elements of an improved quality of life, which is, after all, the objective of development. The Foundation's work in these two areas represents an effort to bring to bear these two powerful catalysts of change and self-improvement on situations where populations are struggling to undertake the transition from high to low fertility, the transition from low-yield to high-yield agriculture, and the transition from wasteful, "dirty" energy to efficient, clean energy. Population-based health care is one of those "ideas" that can powerfully affect the organization of medical training and research, the cost and therefore the terms of access to health care, and the way countries – whether rich or poor – allocate their health resources.

At the global level, then, this is part of the common enterprise: to undertake the unimaginably difficult task of building a world with a higher standard of living, producing far more food, for a population – if we are lucky – twice as large as today's, based on systems of energy use and patterns of production which are benign enough to be sustained within a fragile biofilm that already shows alarming signs of strain and breakdown.

Who belongs to the common enterprise? How much of the roughly \$25 trillion gross world product is devoted to it? Who among us can say that they are engaged meaningfully with part of their lives in an attempt to forge the common enterprise?

OVERCOMING
HATRED AND
CONFLICT

I began this message by noting the rise of ethnic identity and chauvinism that has reemerged after the end of the Cold War. Are we moving toward a world with dozens of Bosnias? And in what ways, except in degree, are the divisions in Bosnia different from the ethnic fault lines which scar our own society? These questions raise the critical issue of whether the world community can establish the context and the conditions for sustainable development. In Somalia today there is no development. Militarization and development are antagonists. Where hate and fear predominate over tolerance, where communalism supplants cooperation, there will be little development. We face here another immense, perilous choice, different in character from the dilemmas sketched above. Here technology exacerbates the problem, but is not directly at issue. Here the choices are timeless and mythic rather than new; they are the results of our oldest, most ingrained characteristics, not the consequences of the last few hundred years of growth and industrialization. This is the choice between tolerance and hate, between mediated international limits and uncontrolled nationalism, between international conflict prevention and peacekeeping, on the one hand, and a world of communal violence and “ethnic cleansings” on the other. Development and conflict cannot generally occupy the same geographic space; they are pitted in fatal competition for the same limited resources – financial, human, and natural.

To choose, finally, development over militarization; to acquire the understanding with which to accept and then to trust diversity; to embrace international arrangements which deter aggression and provide recourse for any community threatened with ethnic oppression – these tasks, also part of the common enterprise, lie unavoidably ahead on the journey we must take if we are to live together on this planet.

Peter Goldmark

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International Program to Support



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Science-Based Development



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International Program
to Support Science-Based
Development

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HE MISSION OF THE FOUNDATION'S SCIENCE-BASED Development program is to help the developing world acquire and apply the knowledge and tools of modern science and technology in ways that are environmentally sound to increase people's access to food, health, reproductive choice, education, and life's other essentials.

ENERGY KEY
IN DEVELOPING
WORLD EFFORT

Dependable energy services make possible the comfortable lifestyles of the industrialized countries. On average, each of the 780 million citizens of 24 industrialized countries annually consumes the energy equivalent of about 38 barrels of petroleum, which represents about half the world's energy consumption. In less-developed countries average per capita energy consumption is about one-tenth of this figure, with all that implies for how people live and die.

The poorer countries, home to 4.2 billion people, need to increase energy services in order to foster economic development and improve living conditions. But just to realize modest per capita growth rates in the next 25 years will require a tripling of current levels of energy services. With greater understanding of the environmental implications of energy production and use – including acid rain, air and water pollution, greenhouse gas emissions, and nuclear waste – the enormity of this challenge is becoming clear. In terms of capital, projected electricity needs in the less-developed countries, based on the conventional approach of increasing the supply of power, would require investment of about \$1 trillion over the next decade – a virtual impossibility.

A central thrust of the Foundation's Global Environment initiative is to assist both the United States and developing countries that want to pursue an alternative path to meet future energy needs – a combination of private sector electricity generation; renewable energy from biomass, solar, hydro, and geothermal resources; and energy efficiency in terms of more efficient lighting, refrigeration, industrial boilers, electric motors, manufacturing processes, furnaces, transportation, and building design.

The Foundation is supporting early-stage planning on projects based on this alternative energy strategy in Brazil, China, Jamaica, and Zimbabwe, and the start-up activities of the International Energy Initiative (IEI), a developing-world organization to foster and assist such efforts. In Zimbabwe, for example, IEI and the government are using Foundation funds for development of a least-cost energy-service program that would include national action on four priorities: industrial energy efficiency, motor efficiency standards, efficient motor rewind practices, and increased efficiency of domestic hot water systems.

Opposite page:
Sugar cane, an important developing-world crop, is the focus of increasing efforts to develop more efficient means to use organic material, or biomass, as a clean, renewable energy source. With Foundation support, this includes application of advanced membrane technology to the manufacture of ethanol and the use of harvest residue, known as bagasse, as a fuel for electrical power generation.



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Earlier in the year, a Foundation-supported mission – involving the Conservation Law Foundation, the Biomass Users Network, and IEI – estimated that a program along these lines could reduce electricity demand 20-40 percent from previously projected levels at approximately 25-50 percent of the cost of expanding supply.

THE ENERGY
FOUNDATION

In the United States, the Energy Foundation this year made 58 grants totaling \$4.6 million in six program areas: encouraging energy efficiency in transportation and buildings, and by utilities and industry; promoting greater use of solar, wind, and other renewable sources of energy; and instituting associated training and education, and media and policy activities.

Projects ranged from a systematic examination of the energy implications of the federal tax code to the development of standards for lighting, windows and other building products, and major appliances; and from the production and dissemination of innovative business management teaching materials dealing with environmental sustainability to establishment of the Transportation Legal Task Force to build the legal precedents and evidentiary record for transportation reform.

The Energy Foundation was created and is jointly funded by the John D. and Catherine T. MacArthur Foundation, the Pew Charitable Trusts, and, as a complement to the international thrust of its other environmental initiatives, the Rockefeller Foundation.

LEAD - AS IN
LEADERSHIP FOR
THE FUTURE

A second round of individuals in an international program to create a cadre of professionals equipped to cope with environmental and development issues was selected this year in Brazil and the former Soviet republics – and their predecessors in the program entered the second and final year of training. First groups were selected and entered training in Indonesia, Mexico, and Nigeria; the Chinese and Indian components (the latter funded with the International Academy for the Environment in Geneva) plan to start their first groups in early 1993.

Now known as LEAD – Leadership for Environment and Development – the program offers two-year study and structured experiences that will prepare the associates to collaborate across national boundaries in protecting shared global resources as well as in addressing development/environmental issues in their own countries. In the first year, the associates further their understanding of development/environmental dilemmas confronting the world, including the underlying relationships between human life and the rest of the biosphere. In the second year, emphasis is on identifying and understanding practical measures that might be taken to promote sustainable development nationally and internationally.

Upon completion of this regimen, which is accomplished during release time from their usual employment, the associates will become fellows and, through the LEAD electronic network being developed, continue to participate in a variety of research and other projects.

Each national round, or class, has approximately 12-15 associates. Overall, most are between 30 and 45 years old. Men and women are represented about equally, and they come in equal measure from government, nongovernmental organizations, and a combination of business, academia, and the media.

LEAD is guided by an International Steering Committee, and each national component has a director and steering committee working through a host institution: in Brazil, the Brazilian Association for Leadership and Development; in China, Beijing

Opposite page:
The Foundation is assisting the development of measures for managing natural resources for agriculture in ways that avoid land uses yielding short-term gains at the expense of the land's long-term value, which is what happened when this area of tropical rain forest was cleared for pasture. After only a few years the soil's nutrients were depleted, metals in the soil were oxidized (turning it red), and erosion set in.

University; in India, the Tata Energy Research Institute; in Indonesia, the State Ministry for the Environment and Population; in Mexico, El Colegio de México; and in Nigeria, the Foundation for Environmental Development and Education.

AGRICULTURE
AND THE
ENVIRONMENT

Other appropriations this year, in the Agricultural Sciences division, will underwrite two, quite different, new programs in Mexico and Thailand – both aimed at helping scientists and farmers collaborate to manage more effectively their countries' natural resources for agriculture.

In Mexico's tropics, smallholders in the low-rainfall hills and forest-fringe areas use relatively unproductive farming methods that, besides causing soil erosion and disrupting watersheds, can accommodate a steady population increase only at the cost of further encroachment on forested land. Teams of scientists, smallhold farmers, and representatives of nongovernmental organizations active in this area will use Foundation funds to identify local projects capable of developing sustainable, more productive farming systems and to share this know-how widely among the region's farmers. The effort is also linked, through some of the program's organizers, to the Foundation's LEAD program in Mexico.

In northern Thailand, paralleling conditions elsewhere in Southeast Asia, the combination of population pressure and scarcity of good farm land at lower elevations is steadily increasing highland farming, resulting in deforestation, degradation of watersheds, soil erosion, and depletion of soil nutrients. Building on cooperation between faculty members, farmers, and community organizations in this area, Chiang Mai University is using Foundation funds to develop a research and graduate-training program focused on highland natural-resources management to match its internationally known work with applied lowland farming systems. Following a trial period of the new curriculum with Thai students, the program will be opened to students from the Philippines, Indonesia, China, and the region's other countries, with instruction then provided in English.

EXPLORING
HEALTH AND THE
ENVIRONMENT

Mounting economic and population pressures force greater numbers of families in less-developed countries to live and work in regions that had been sparsely inhabited and are characterized by poor sanitation and inadequate supplies of potable water. These relocations produce significant public health problems, for environmental stresses and degradation are linked to the growing incidence of such communicable diseases as dengue, malaria, typhoid fever, cholera, and yellow fever; acute respiratory infections, pneumonia, and tuberculosis; and such other health problems as diarrheal disease, schistosomiasis, trypanosomiasis, and heavy metal toxicity.

An appropriation this year will underwrite a major investigation in Brazil's Amazon region to determine more precisely the dynamic relationships between health and human encroachment and other changes in tropical forest habitats. The program has four goals:

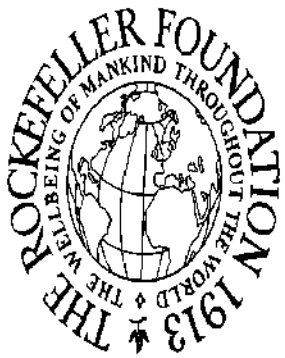
- to develop measures for assessing the carrying capacity in the Amazon Basin that take into full account the interrelationships among migration, land use, and human health;
- to implement model agroforestry and forest-regeneration programs that are compatible with human health promotion and economic viability;
- to implement a malaria-control strategy in the western Amazon that is compatible with high population mobility and ecological transformation of frontier settlements;
- and to train a group of Brazilian scholars/policy activists in tropical forest ecology, tropical public health, and social, economic, and public policy as it pertains to

Opposite page:
Family planning and reproductive health services, like this public education session in a Nigerian marketplace, are crucial means for helping individuals in the developing world to meet their own reproductive goals and to reduce maternal and infant mortality.



Photograph Excised Here

The ranks of these African children orphaned by AIDS is expected to reach 10 million by the year 2000 – in less than a decade.



Photograph Excised Here

To close the gender gap in primary schools in the 43 lowest income countries, it would be necessary to educate an additional 25 million girls each year at an estimated cost of \$940 million. To equalize secondary school enrollments would require educating an additional 21 million girls at a cost of approximately \$1.4 billion.

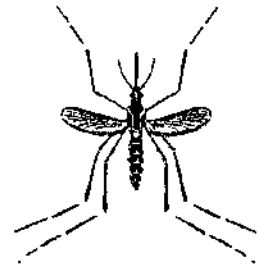


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A 1992 appropriation will be underwriting multi-year exploration in the Amazon basin of the relationships among human migration, environmental stress, and changes in the frequency and pattern of human diseases, especially those transmitted by insects such as the *Aedes aegypti* mosquito.



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These cassava plant embryos are clones of their parent plant – they have been grown from leaf cells rather than seeds. This is a vital advance in a Foundation-supported effort finding ways to introduce bacterial and viral genes into this important tropical food plant and thereby confer immunity to diseases caused by the microorganisms.

governmental and corporate decisions about land utilization and management in the Amazon Basin.

APPLYING
BIOTECHNOLOGY TO
AGRICULTURE

The Foundation's agricultural biotechnology program seeks to balance an industrialized-world advantage by sponsoring research on tropical crops that advanced laboratories would not otherwise undertake. Also, by supporting training opportunities in these labs for young scientists from the developing world and by providing other support encouraging technology transfer, the Foundation is helping the developing world increase its capacity to use agricultural biotechnology.

The value of the scientific network created by this program has been underscored by the development of techniques that make it possible to create rice varieties with durable, long-term resistance to blast fungus, one of the most widespread and damaging disease-producing organisms of cultivated rice.

Plant breeders had previously identified more than 30 rice genes that impart resistance, but the resultant new rice varieties were overwhelmed by the blast fungus almost as soon as farmers began using them widely. It appeared that the deadly organism had an almost uncanny ability to mutate and overcome the rice plant's natural resistance. But scientists, using new molecular techniques to analyze the blast fungus, have learned that it has a number of distinct genetic lines in each region of the world. Now other scientists, guided by genetic maps, can breed rice varieties with gene combinations that are resistant to the specific lines of blast prevalent in a given region.

This work was carried out by scientists in the Foundation's rice biotechnology network – at Cornell and Purdue universities, the Centro Internacional de Agricultura Tropica in Colombia, and the International Rice Research Institute in the Philippines with the cooperation and assistance of colleagues throughout the world.

While the Foundation's funding is mainly focused on rice – more than \$40 million appropriated over the past eight years – support has also been provided for research projects and fellowships dealing with other crops important in the developing world. Two of these are sorghum and millet, which are often the major staples of people in Somalia and the other semi-arid tropical countries of Africa and Asia. An international network for exchanging information about molecular research on these two crops and encouraging links between molecular biologists and plant breeders working with sorghum and millet around the world has been formed following a meeting that the Foundation co-sponsored last year with the British Overseas Development Administration at the Foundation's Bellagio Conference Center.

A Foundation appropriation this year continues sorghum and millet research at U.S. institutions in the network and provides postdoctoral fellowships enabling developing-country scientists to participate in the research and transfer new technologies to their home institutions. These studies include efforts to increase drought tolerance and insect and disease resistance for both crops, and to develop a way for millet farmers to reduce their dependence on commercial seed by producing their own higher-yielding hybrid seed.

Dr. Nevin Young of the University of Minnesota – with Foundation support that included postdoctoral fellowships for scientists from crop-breeding institutions in Nigeria, the Philippines, and India – has developed a molecular genetic map for the plant genus *Vigna*. This map is now being used to tag and follow the inheritance of important genes in cowpeas and mung beans, major legume crops of the tropics. Through continued

Opposite page:
The Foundation's rice biotechnology network links 500 scientists and 83 laboratories in 7 industrialized and 14 developing countries. The aim: to improve varieties of this all-important food crop and to help rice-dependent countries develop their capacities to use genetic engineering techniques. The work ranges from efforts at RLABB in Nepal, depicted above, to produce plants capable of flourishing in that country's cold hill country to efforts at California's Scripps Research Institute, depicted below, to impart resistance to devastating virus diseases of rice.



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collaboration among the postdoctoral scientists at their home institutions, and with the scientists at the international agricultural research centers responsible for these crops, the *Vigna* genome-mapping technology is being transferred to and incorporated into practical cowpea and mung bean improvement programs.

INTERNATIONAL
BIOSAFETY
ADVISORY
COMMISSION

Several international agencies, including the Foundation, are helping developing countries both to obtain genetic-engineering technologies and products and to utilize these safely and effectively. Most of the recipients function responsibly and wish to abide by safeguards designed to ensure that societal and economic benefits are maximized while possible hazards – to the environment, agriculture, and public health – are minimized. But many countries lack the breadth of scientific expertise for carrying out careful assessments of risk that should precede any release of genetically engineered organisms into the environment.

Accordingly, a joint grant this year from the Foundation's divisions of Agricultural Sciences and of Arts and Humanities is helping to establish an international commission to which developing countries can apply for advice on the risks and benefits associated with such releases. A range of ethical, social, and cultural – as well as scientific – expertise and concerns will be represented on this commission, which is being organized by the Stockholm Environment Institute, in Stockholm. This work complements efforts by four United Nations agencies seeking to develop an international code of conduct for biosafety, and follows on earlier Foundation work in this area, including a joint program with the U.S. Department of Agriculture helping developing countries to identify and establish appropriate plant biotechnology regulation.

THE "GREEN
REVOLUTION" IN
INDONESIA

Indonesia, the world's largest importer of rice between 1970 and 1985, is now nearly self-sufficient in rice production. Yields increased almost twofold between the early 1970s and the late 1980s – to 4.1 tons of rice per hectare (2.3 acres). Much of the increase is traceable to acceptance of new rice varieties.

A Foundation-funded, village-level study of the "Green Revolution" in Indonesia reported this year that irrigation, not farm size or land tenure, correlated with farmers' adoption of new rice varieties. And where farmers grew the new varieties, they not only greatly increased yield, but also used more hired labor, thus increasing the earnings of the landless.

In villages where most of the rice is the upland type, grown without standing water, most farmers continued to grow pre-"Green Revolution" varieties, which have considerably lower yields. Contrary to expectations, however, wages in those areas also increased – apparently because of emigration of the landless in response to opportunities elsewhere – so that upland farmers were able to maintain their incomes almost at the level of farmers who were growing the new varieties.

TRAINING FOR
PUBLIC HEALTH
IN ZIMBABWE

Communicable diseases, reproductive health problems, and malnutrition continue to account for most of the sickness and death in sub-Saharan Africa. But national public health systems are unable to mount essential preventive programs because of a shortage of upper-level staff. With graduate public health training unavailable in southern Africa, candidates for managerial positions must go abroad for training.

Zimbabwe will be the pilot site for the Foundation's new "Public Health Schools Without Walls" initiative testing the concept of field-based training for senior public health officers. The essential concept is a two-year, degree-granting curriculum that stresses the competencies required for solving on-site problems. This is accomplished through apprenticeships supervised by the Ministry of Health in cooperation with the University of Zimbabwe Department of Community Medicine and International Clinical Epidemiology Network unit, with assistance from visiting public health faculty.

Priorities for field work are (1) maternal and child health, including family planning, nutrition, immunization, diarrheal and respiratory diseases, and maternal mortality; (2) communicable diseases, especially AIDS and other sexually transmitted diseases, tuberculosis, and malaria; and (3) environmental and occupational illnesses.

The first group of trainees will consist of approximately six mid-career health officers nominated by the Ministry. They will receive full salaries while they are in training; after receiving their public health degrees, they are to be assigned to provincial-level supervisory positions in the Ministry.

PARTNERSHIP
FOR CHILD
DEVELOPMENT

Another appropriation this year will assist the Partnership for Child Development, a three-year initiative in which a number of developing countries will select areas where parasitic worms and malnutrition are endemic and test the feasibility and cost effectiveness of having teachers routinely give their students medications and vitamins to eliminate worms and combat poor nutrition.

The initiative builds on two new anthelmintic drugs that have been shown to eliminate most major worm species; are safe; and without prior diagnostic testing, can be administered outside the medical setting in repeated single oral doses.

The Partnership, which was created during a 1991 meeting at the Foundation's Bellagio Conference Center, brings together a variety of health and educational institutions and organizations, developing countries, and such other donor groups as the U.N. Development Programme, the World Health Organization, and the Edna McConnell Clark and James S. McDonnell foundations. An independent group will monitor the scientific validity of the technical aspects of the initiative, provide quality-control testing, and review key data analyses.

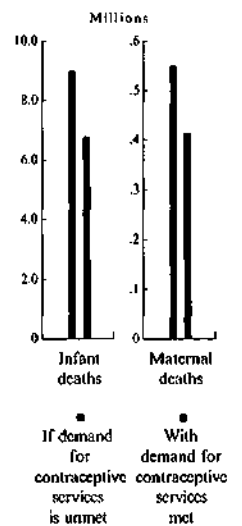
NEW OBJECTIVE
ADOPTED
FOR POPULATION
SCIENCES

Helping to mobilize the necessary resources for responding to the unmet demand for contraception in the developing world was adopted at year-end as a new, central objective of the Foundation's Population Sciences division. It builds on a long-standing commitment to advancing the dignity and rights of individuals to make their own reproductive choices.

Analysis indicates that family planning and reproductive health services that would enable individual women and families to satisfy their own reproductive goals would make major headway toward achieving replacement fertility on a global scale and, at the same time, improve the health status – indeed the very survival – of millions of women and children (see chart on this page).

Today, approximately \$4.5 billion is spent on population activities in the developing world – donor agencies contribute slightly under \$1 billion and the rest is provided by developing-country governments, nongovernmental organizations, and individual users of services. The annual cost of providing services at a level sufficient to satisfy the unmet

Number of lives that potentially could be saved annually if the unmet demand for contraceptive services by 100 million women, worldwide was satisfied





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demand for contraception and related reproductive health care by the year 2000 is estimated to be about double current expenditures, or some \$9-10 billion a year.

If this target is met, estimates indicate that world population will stabilize at 10-12 billion during the next century. As the chart on this page indicates, if the resources and service gap continues to go unmet, stabilization won't occur until sometime in the twenty-second century – at 15-20 billion people.

Demographic estimates of unmet demand for contraception in the developing world vary from 100 million to 300 million people. If 100 million were to begin using effective contraception, the average number of children per family would drop immediately to about 2.8 – one less child than at present – and the rate of contraceptive use would increase to 64 percent from today's 51 percent. Replacement-level fertility of 2.1 children per family on average will not occur until desired family size falls still further as a consequence of rising incomes, literacy, urbanization, and health status.

Unquestionably, there is a strong relationship between contraceptive use, fertility, and a country's level of development, especially in terms of low infant mortality and high rates of female education. For example, increased voluntary family-planning services alone are likely to continue producing important demographic results in most of Latin America, where development indicators are relatively strong. In Africa it appears that desired family size is likely to fall more slowly. Even so, unmet demand is rising in less-developed regions like Africa, suggesting an incipient desire to limit fertility in an environment of scarce family-planning services. Here, too, an important program complement is the Foundation's ongoing efforts to help that continent's countries to increase female school enrollment.

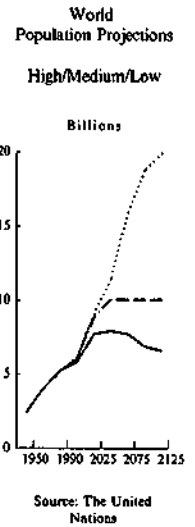
Data from experimental projects in Taiwan, Bangladesh, Kenya, and other developing countries have shown conclusively that when acceptable, voluntary family-planning services are offered, even in very adverse socioeconomic settings, people make very substantial use of them. The subsequent success of national programs in these countries reinforces these findings. The major conclusion: the quality and cultural compatibility of family-planning services, in addition to their mere availability, is crucial.

In the coming months, the Foundation's Population Sciences effort will be reoriented to mobilize resources: to satisfy unmet demand in the developing world with quality, culturally appropriate family planning and reproductive health services, especially for adolescents; and to develop safer, more effective contraceptives.

SPECIAL
AFRICAN
INITIATIVES

Start-up support was provided for the Forum for African Women Education-
alists, which was organized this year by 25 women cabinet ministers, university
vice chancellors, and other senior educators and officials from 19 sub-Saharan
countries. Drawing on their experience in positions responsible for the formulation and
implementation of educational policy in their countries, and on experience from the earlier,
formative years of their careers, the members will promote greater female participation
as students, teachers, administrators, and policymakers in and for their nations' schools.
They will also serve as informed regional advocates with international donor groups.
In one of its first ventures, members of the Forum will work with the African Academy of
Science in a project to identify local educational innovations that offer lessons that could
be adapted to improve national educational strategies.

Funds were also provided under the African Initiatives' South Africa program
to Johannesburg's Market Theatre for extending its educational and outreach activities into



Opposite page:
Working in the
Indian Ocean off
Malindi, Kenya.
David Obare Obura
is using his Founda-
tion dissertation
research support to
study and measure
how coral reef habi-
tats are being
degraded by intensive
fishing and eroded
soil carried to the
reefs in river
plumes – one the
action and the other
a consequence of
the region's growing
human population.
Mr. Obura, a
Kenyan, is a doctoral
candidate at the
University of Miami's
Rosenstiel School of
Marine and Atmos-
pheric Science.

Arts and
Humanities

T

HE ARTS AND HUMANITIES DIVISION ENCOURAGES creative artists and humanities scholars whose work can advance international and intercultural understanding. This is done through support for activities extending international and intercultural scholarship and increasing artistic experimentation across cultures.

CULTURAL
AND SOCIAL
CHANGE

The division, expanding on its mission to advance international and intercultural understanding, is engaged in a broad exploration of how independent cultural institutions in the developing world can help to foster and support societal pluralism, tolerance, and democracy.

The first steps in this “civil society” exploration followed naturally from the internationalization of the arts and humanities program occurring over the past several years, together with the Foundation’s more than seven decades of experience in other fields in the developing world. Among the questions raised: given this accumulated experience, what could the Foundation bring to an increasingly global conversation about the resilience of societies needing a better capacity to manage change? And more specifically, how can the arts and humanities help to bridge the currents of incomprehension, inflexibility, and even hostility that seem to flow parallel to the global trend toward democracy?

In such an exploration, one quickly comes to the matter of values associated with the exchange of ideas and the open expression of differences. The Foundation’s intention in this respect, however, is not to try to recast other societies in some preconceived mold; on the contrary, the guiding principle is to work only in places where internal processes of questioning and change already exist.

AFRICAN
MUSEUM
INITIATIVE

The opening to democracy that is occurring in many African nations creates a corresponding opportunity for the reemergence and reinvigoration of independent institutions that can reinforce this change. Cultural institutions as well as nongovernmental organizations, cooperatives, trade unions, and religious groups – which have had their vitality stunted during periods of repression – are beginning to revive as vehicles of pluralistic expression.

There are museums in every sub-Saharan country, but in addition to struggling with insufficient funding, inadequate facilities, and shortages of personnel, they have been oriented more toward preservation of the past than envisioning their roles for the future. Many African museum professionals, however, are increasingly aware of the challenge they

Opposite page:
Choreographer Bill T. Jones received a 1992 grant toward the creation and production of *Still Here*, a music and dance work featuring performers and others from the New York HIV/AIDS community.



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face in modifying their institutions' practices to address the needs of their changing, often-democratizing societies. As one recently phrased it: "African museums can no longer be content to limit their functions to conservation and to the past, removed from the daily problems of the community. They must become active partners in dealing with the crucial problems of the times . . . encouraging criticism, debate, awareness, and participation in the problems which undermine the communities."

Building on a number of meetings and exchanges with African museum professionals over the previous year, and complementing a major effort begun last year to strengthen African publishing, the first appropriation in a new African museum initiative will support a number of regional, framework-building activities to foster the forward-looking new directions. Among the first projects, for example, is a new Southern Africa museum association effort to train museum educators who can create links between their institutions and their communities.

Opposite page:
The outreach program of Sculpture Chicago, with Foundation support, included a Belize field trip for 12 high-school juniors, led by artist Mark Dion, for hands-on experience in a tropical rain forest and related ecological and conservation institutions.

NEW LATIN
AMERICAN
PERFORMANCE
NETWORK

In Latin America as in the United States, artists working in contemporary performance formats often challenge official institutional structures as well as artistic traditions. As commentators on both the arts world and the larger community, these artists play an invaluable role as the conscience of society. They characteristically work in relative isolation, however, due to the vastness of the continent, the high cost of air travel, and other economic factors. This limits markets for artistic work as well as inhibits artistic cross-fertilization.

In 1991, with Foundation support, performing arts presenters and producers from 15 cities in nine countries – Argentina, Brazil, Bolivia, Chile, Colombia, Mexico, Paraguay, Peru, and Venezuela – met and formed a network designed to promote artistic and educational exchanges in the fields of contemporary theater, dance, performance art, and music. Positive results began immediately – the Colombian representative in the network, a festival organizer, booked a number of artists from other countries whose work he saw on videotape during the first planning meeting.

A Foundation appropriation this year will support further development of the network – La Red Latinoamericana de Productores Independientes de Arte Contemporáneo. Priority is being given to identifying and recruiting additional members in Costa Rica, Ecuador, Uruguay, and the Caribbean.

FUND AWARDS
FIRST GRANTS

The U.S.-Mexico Fund for Culture (El Fideicomiso para la Cultura Mexico/USA) awarded its first round of grants in the performing arts, museum and visual arts, libraries, publishing and translation, the media arts, and cultural studies. The 36 projects funded totaled \$778,575 and include a radio project about the immigration of workers from Puebla to New York, the creation of an historical opera, and a library conservation exchange. The Fund, created in 1991, has its offices in Mexico City and is co-sponsored by the Foundation, Mexico's National Council for Culture and the Arts, and the Bancomer Foundation, also in Mexico.

HUMANITIES
FELLOWSHIPS

Six U.S. universities and three programs in Latin America were added to the roster of sites in the Foundation's Resident Humanities Fellowship Program to advance scholarship that illuminates international and intercultural issues and to strengthen institutional sites where such scholarship is sustained.

A ceramic bowl of the Mimbres people of southwestern New Mexico, circa 1000/1150, from the Art Institute of Chicago's Foundation-assisted exhibition, *The Ancient Americas. Art from Sacred Landscapes.*



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Pictured right Chung K'wei's role is summed up by the two large characters – "Protect the Home, Expel Evil" – in this print from the volume *Domesticated Deities and Auspicious Emblems*. It was published this year with Foundation assistance by the Chinese Popular Culture Project of the Center for Chinese Studies, University of California-Berkeley.



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Pictured left:
Woman Holding Her Hair is from The Studio Museum in Harlem's Foundation-assisted, 25th anniversary inaugural exhibition, "Wifredo Lam and His Contemporaries, 1938-1952."



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Ozone Madonna is one of the works touring the country with the exhibition "Shared Visions: Native American Painters and Sculptors in the Twentieth Century." The Foundation has underwritten conferences in conjunction with the exhibition's opening at the Heard Museum in Phoenix, where it was organized, and the Smithsonian Institution in Washington, where it will close

Since 1983 the program has supported 326 fellows at 55 host institutions selected on a competitive basis; it is the Foundation's central means for supporting scholarship in the various humanities disciplines. Thirty-one programs will be participating next year, including the nine new ones. The latter include a research program on the history of the Mexico-U.S. border region and a comparative study program of cultural identity, national identity, and nationalism among various groups of Mexicans and Americans of Mexican descent, at Colegio de la Frontera Norte in Tijuana, Mexico, and a research program on U.S. history at the Instituto de Investigaciones Dr. Jose Maria Luis Mora in Mexico City.

The new U.S. sites are: the Center for Lesbian and Gay Studies at City University of New York; a program connecting studies of science and technology with concerns about equity, justice, and the global environment at Cornell University; the Center for Puerto Rican Studies at Hunter College; the Program in Legal Humanities at Stanford University; a program on Afro-American identity and cultural diversity in the Americas at the University of Florida; and a program on "African Peoples in the Industrial Age" at the University of Michigan.

NATIONAL
VIDEO
RESOURCES

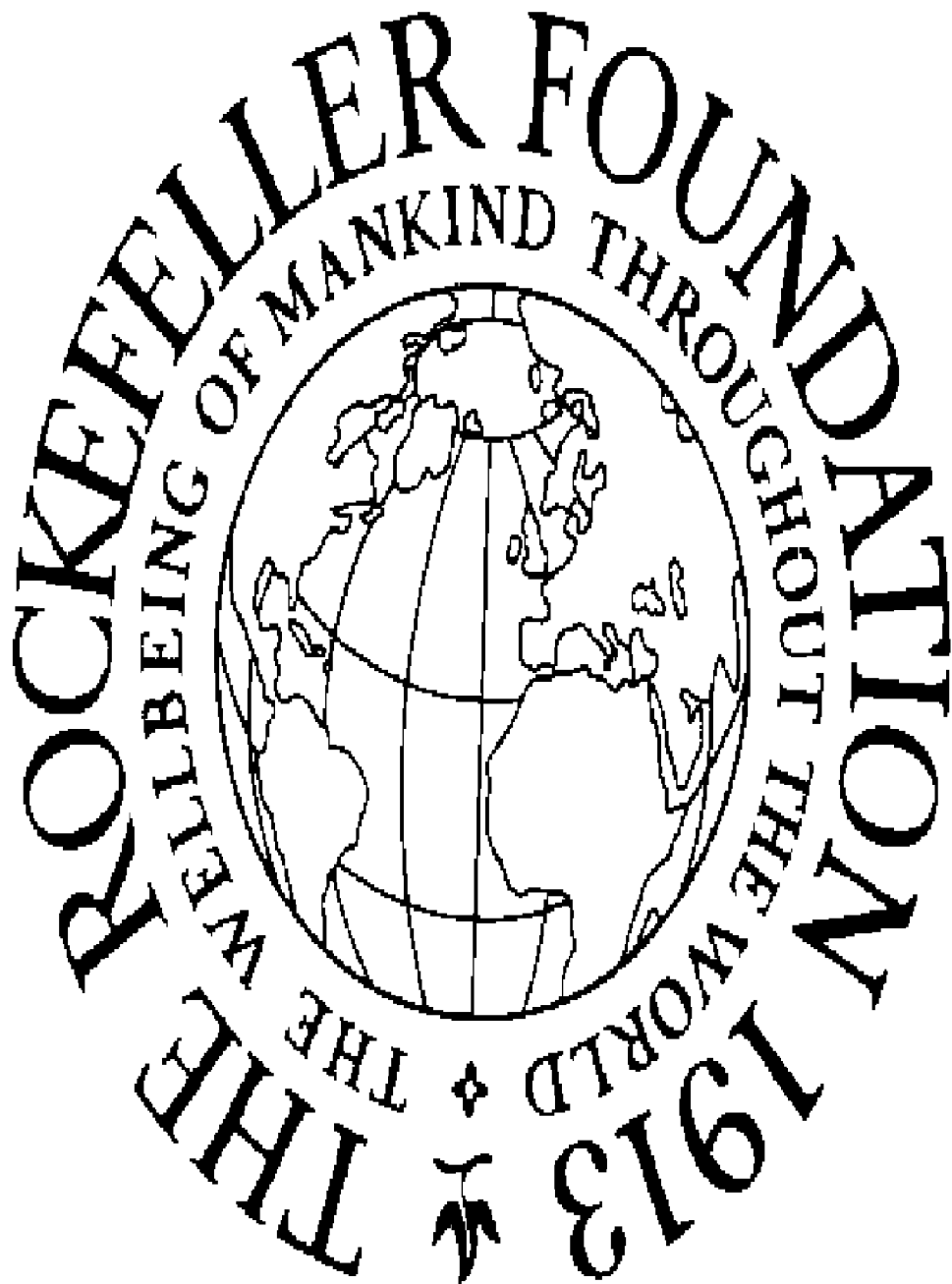
National Video Resources, created as a Foundation project in 1990 to increase public access to outstanding cultural, educational, and documentary film and video materials, became a free-standing, nonprofit organization in July. It will continue to employ grants, consultants, and its own staff to provide technical assistance, initiate and disseminate the results of market research and other studies for the field, build distribution models for possible replication, and undertake audience development projects. It funded 25 projects in 1992 with grants totaling \$307,631. One project this year resulted in an agreement with 16 film archives for a separate and lower rate for the right to use their film footage in educational, documentary, and informational programs for the home video market – previously a financial barrier for most independent filmmakers. The award-winning television series "Eyes on the Prize," which includes over 100,000 feet of archival footage on the U.S. civil-rights movement, was one of the first works to benefit from the new rates and be offered on videocassettes for home use; other series include "The Great Depression," "The Liberators," and "Count Basie."

CONTINUING
COMPETITIVE
PROGRAMS

A number of other major, ongoing initiatives received support this year, including the following competitive programs:

- Grants were made in support of 17 festivals in 13 U.S. cities to explore the range of this country's cultural expression and to help bring artists, particularly from the developing world, to participate. (Recipients listed on page 89)
- The Multi-Arts Production Fund, the principal means by which the Foundation supports the creation of new international and intercultural works in the performing arts, assisted 29 projects in 10 states and one in London. (Projects listed on page 90)
- The Fund for U.S. Artists at International Festivals and Exhibitions, co-sponsored with the Pew Charitable Trusts, the U.S. Information Agency, and the National Endowment for the Arts, made 164 grants enabling U.S. performing and visual artists to participate in festivals and exhibitions in over 30 countries, including first-time appearances by Americans in major visual arts exhibitions in Turkey, Egypt, and Senegal.
- Artists' Projects: Regional Initiative, jointly funded with the Andy Warhol Foundation for the Visual Arts and the National Endowment for the Arts, supports

Opposite page:
To mark the 50th anniversary of the wartime internment of more than 110,000 Japanese Americans, 134 paintings, drawings, and other works created by 35 artists in the internment camps were organized and exhibited, with Foundation assistance, at the UCLA Wight Art Gallery by that gallery, the UCLA Asian American Studies Center, and the Japanese American Museum.



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emerging and lesser-known artists in the creation of innovative work and helps them to reach new audiences through arts organizations in their own regions of the country. This year, 14 grants were made to arts organizations and these funds, in turn, were awarded competitively to individual artists or groups of collaborating artists for 162 specific projects. (Recipients listed on page 88)

- Thirteen museums received support enabling them to create imaginative exhibitions of non-Western and American minority cultures. (Projects listed on page 86)

- Twenty film and video artists – from Brazil, Chile, Mexico, and the United States – were selected to receive Intercultural Film/Video Fellowships. This initiative, begun in 1986 and co-funded since 1991 with the John D. and Catherine T. MacArthur Foundation, assists individuals creating documentary, dramatic, and multi-media projects exploring and illuminating various aspects of cultural diversity. The fellows' projects this year range from a feature-length narrative film about the romantic relationship between a single white father and a troubled Asian-American youth in a small California town to a documentary, *City of Fragrant Heart*, set in Veracruz, Mexico, and using archival footage shot in the 1930s; and from a narrative feature film portraying the daily life of the Palestinians living in Israel today to an hour-long documentary examining how the mass media influence and affect people of color in America.



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Equal Opportunity

T

HE FOUNDATION'S EQUAL OPPORTUNITY PROGRAM follows a two-pronged approach to promote the full participation of minorities in American life: protecting basic civil rights and – the larger of the two efforts – understanding and attacking persistent urban poverty.

A QUEST
FOR GREATER
ECONOMIC SELF-
SUFFICIENCY

This year the staff and board opened an exploration for new strategies to help minorities in inner cities achieve greater economic self-sufficiency. Thanks in no small measure to earlier investments by this and other foundations, a good deal is known today about the primary factors contributing to persistent urban poverty: economic marginalization, social dysfunction and decay, discrimination, inadequate development and education, and meager income supports. And the picture is grim.

Long-standing educational and employment discrimination have ensured that minorities make up a disproportionate share of this country's marginally skilled and unskilled work force, and the American economy is now restructuring in ways that place them in increasing peril. For economic growth alone is no longer sufficient to solve the income and employment problems of the poor, especially for those who are minorities living in our largest cities where poverty persisted through the 1980s despite robust expansion in the number of jobs.

Corporations today are downsizing, and good jobs – those with decent pay, benefits, and reasonable stability – are being lost to technological change or have been “emigrating” from cities to suburbs and to other countries. College-educated people who can't get decent jobs are moving down the job ladder, thus squeezing out those with less training. Industries like construction and manufacturing that have traditionally provided good jobs for unskilled workers are experiencing sluggish growth, no growth, or outright contraction. And Latinos and blacks are concentrated in those sectors that are expected to suffer slow growth, low wages, and high unemployment in the future.

Between 1979 and 1990, the proportion of full-time, year-round workers who earned less than \$12,195 – the poverty-level wage for a family of four – increased from 12.1 percent to 18 percent. In 1990, that amounted to 14.4 million workers. The decline in income has been especially pronounced for men. The fact – and the perception among young minority men – is that the income they can make from these jobs is insufficient to start or sustain a family. For single mothers who are poor, it simply doesn't pay financially to leave public assistance for work.

Opposite page:

Both the availability and quality of day-care, which is essential for families in which the single parent or both parents must work, can be profoundly affected by state regulation. San Antonio's Partnership for Hope, with Foundation assistance, is conducting a comparative evaluation of Texas day-care regulations for each of the types of providers offering these services.



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The Foundation's self-sufficiency exploration is being pursued along the lines of three central questions:

- How can families caught in persistent poverty, and their communities and schools, provide their children with the academic and social development needed to function successfully as citizens and in the labor force (challenges being addressed in part through the Foundation's School Reform program)?
- With the increasing inability of the labor market to absorb the marginally skilled and unskilled, what's to be done if society nonetheless expects people to work?
- And even if the unskilled and marginally skilled manage to find work, what can be done to assure that their jobs pay enough to induce them to work and to enable them to provide a decent standard of living for their families?

At mid-year, the Los Angeles uprising added impetus to this exploration by again reminding the entire country of the terrible future that awaits continued failure to overcome racial divisions and the economic inequities that result from, and reinforce, these divisions.

COMMUNITY
PLANNING
AND ACTION

Parallel with the division's exploration of self-sufficiency strategies for combating persistent urban poverty, projects with a labor-market focus are receiving special emphasis within the Foundation-supported Community Planning and Action Program sites in Boston, Cleveland, Denver, Oakland, San Antonio, and Washington. For example:

- Staff and expertise provided by the Washington, D.C. project have helped a special commission's assessment of the district's vocational education system, which includes proposals for substantially reorienting career education.
- The Cleveland project's main focus has been research and analysis, as well as staffing for a Cleveland Foundation-appointed Commission on Poverty's master plan and timetable for targeted neighborhood revitalization, including investment and economic development, whose implementation will be assisted by a special \$1.5-million federal grant appropriated this year by Congress.
- The Denver project has sparked formation of the Health Employment Collaborative, a partnership of local health care training agencies, employment agencies, and health care employers, which has already secured a commitment from a major health care employer to hire residents from minority and low-income communities in a new facility.
- The San Antonio project has acted as broker enabling a local industry effort to use the employment-training model developed and tested in San Jose, California, with support under the Foundation's Minority Female Parent Program.
- The Urban Strategies Council – the Oakland project – has monitored the county's GAIN (welfare-to-work) program to assure strategic targeting in areas of concentrated poverty; access to high-quality child development services and transitional supports; and effective job training.
- And several of the projects have taken a lead role in coordinating local educational campaigns about the availability of the federal Earned Income Tax Credit.

MOBILIZING
COMMUNITIES
FOR ACTION

The Foundation provided the final year of support for a five-year program at the Social Science Research Council (SSRC) designed to stimulate interdisciplinary research on the origins and persistence of concentrated urban poverty in the United States and to create a cadre of young scholars that can further

Opposite page:
A wide-ranging Foundation exploration for new strategies to help minorities in inner cities achieve greater economic self-sufficiency is examining knowledge and experience gained in recent years in many types of relevant action and research programs. These include such job-training efforts as the Foundation's own program for minority female single parents, which, as depicted here, included hands-on preparation for a variety of positions requiring scientific and technical skills.

advance the state of knowledge about the urban underclass.

This endeavor is directed by a committee of distinguished scholars functioning through interdisciplinary working groups that have been sponsoring conferences and workshops and commissioning studies in four relevant areas: (1) the dynamics of the labor market; (2) the social ecology of drugs and crime; (3) the relationship between family and individual processes and very poor neighborhoods; and (4) the historical origins of the underclass.

When the Foundation asked the SSRC to mount this effort, there were only four major academic centers of research on poverty issues in this country, and only 36 of 250 students completing dissertations in relevant areas between 1980 and 1986 described their research as being concerned with the urban underclass. Since 1988, SSRC has awarded 70 undergraduate assistantships, 35 slots in summer dissertation workshops, 23 dissertation awards, and 15 postdoctoral fellowships. Today there is a community of over 100 senior scholars, and as many young scholars, doing research at more than 60 universities. The intellectual output to date includes 16 research studies, 26 commissioned papers, 45 research articles, and an urban underclass database containing over 6,000 social, economic, demographic, and health indicators that has been used already by the U.S. Department of Housing and Urban Development in preparing a major report to the President on national urban policy.

COMMUNITY
DEVELOPMENT

The National Community Development Initiative (NCDI), which began operation last year with the support of a consortium of donors, is working through the Local Initiatives Support Corporation and The Enterprise Foundation with 100 Community Development Corporations (CDCs) in 20 of the country's major cities.

NCDI's core grants and loans totalling \$63 million are expected to attract an additional \$500 million over a five-year period from other public and private sources, and by year-end, NCDI funds and more than \$100 million from other sources were already helping to finance 2,000-plus housing units in various stages of development.

NCDI's mission is to accelerate the pace and advance the scale of activity across the country by CDCs, and although multi-family low-income housing is the principal focus of this effort, a variety of other activities are being assisted to strengthen CDCs. For example:

- In New York City where CDCs are well established, NCDI is helping to create child care facilities and programs for about 900 children from low-income families.

- And in Chicago, a unique pilot project creating a secondary market for low-income housing mortgages involving CDCs and the Federal Home Loan Mortgage Corporation completed its first transaction – \$5 million in loans from the Harris Bank in Chicago. This transaction was launched through the Local Initiatives Managed Assets Corporation, with assistance from the Ford Foundation, to increase the flow of long-term fixed-rate mortgages from banks into community development multi-family housing projects.

In a complementary effort to NCDI, the Foundation also joined with the Pew Charitable Trusts, the Lilly Endowment, and the New York Community Trust in supporting a major study of the social and behavioral effects produced by a selected group of CDCs in the low-income neighborhoods where they operate. The project is a pioneering effort under the auspices of the New School for Social Research, which will build on case studies of 12 CDCs with reputations for producing social as well as physical revitalization in their low-income service areas.

Opposite page:
Work began this year on a combination of small stores and affordable apartments for low-income families in New York's East Harlem, a project of Hope Community. It is one of the many community development corporation projects across the country being assisted by the Foundation through grants to the Local Initiatives Support Corporation and the Enterprise Foundation, either directly or through the National Community Development Initiative.



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BASIC RIGHTS
PROGRAM
REAFFIRMED

In 1992 the Foundation reaffirmed its commitment to programs under the Equal Opportunity division's guideline promoting the full participation of minorities in American life by assuring their rights "through legal, public policy and electoral processes." This action followed a full-scale program review under the direction of Professor Charles R. Lawrence III of the Stanford University Law School, whose report noted that the United States in the next century would become a nation with no majority population and challenged the Foundation to help the country transform the protection of minority rights into a quest for universal rights for all Americans.

"The effect of literally becoming a nation of minorities, like the effect of seeing the first pictures of Earth taken from the moon, may radically alter our conceptions of ourselves and, eventually, our behavior toward each other," he wrote. "The question is whether that will be a time of equal citizenship in a multi-cultural society, or of divisiveness and continuing discrimination directed against historically victimized ethnic groups."

Key among the constructive forces, he believes, are pragmatic advocates of basic rights whom the Foundation would assist to employ, increasingly, their skills to "articulate shared interests and forge common cause with others, in order to create the political will to renegotiate the social contract."

Over the past five years, the Equal Opportunity division has expended approximately 20 percent of its funds – just over \$14 million – in support of activities within the basic rights guideline: (1) public policy analysis; (2) efforts promoting equitable redistricting following the 1990 census; and (3) the work of a selected panel of major civil rights litigating and advocacy groups. This last encompassed continuing support for the NAACP Special Contributions Fund and the Human Rights Project of the Native American Rights Fund, and stabilization support for the American Civil Liberties Union Foundation, the Lawyers Committee for Civil Rights Under Law, the Mexican American Legal Defense and Educational Fund, the NAACP Legal Defense and Education Fund, and the Puerto Rican Legal Defense and Education Fund.



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School Reform

THE FOUNDATION'S SCHOOL REFORM PROGRAM is designed to improve public education for urban children from poor families who are at risk of failure or dropping out because of problems associated with the widening chasm between schools and the cultures of children raised outside society's mainstream.

The program has three principal strategies: helping school systems (1) change the way their schools are organized and managed through the School Development Program pioneered by Dr. James Comer of Yale University; (2) reform curriculum and instruction – largely in language arts, literature, the arts, and history – through a national student-assessment demonstration project and the national Collaboratives for Humanities and Arts Teaching; and (3) modernize educator training and development.

ADVANCED MATH FOR EVERYONE

In 1992, the Foundation widened its curriculum and instructional focus by joining a consortium of funders supporting The College Board's Equity 2000 initiative. This program is in its second year of providing students in six predominantly minority, urban school districts with challenging mathematics curricula and academic enrichment activities – in the middle- and high-school grades – designed to improve the students' prospects for college enrollment and/or employment.

The importance of mastering elementary- and secondary-school mathematics – in terms of work-force participation as well as preparation for college education – is recognized by industry and the educational community alike. And this comes at a time when mathematics curricula and teaching are undergoing major change, and poor and minority students are enrolled in advanced math classes in significantly lower proportions than other students.

Under Equity 2000, *all* students are enrolled in advanced math classes, such as pre-algebra, algebra, and geometry. And the school districts and teachers are challenged to emphasize the student's ability to explore, to reason logically, and to use a variety of mathematical methods effectively to solve practical, real-world problems (see page 97 for an example of how reasoning can be encouraged rather than relying on the traditional approach of repetitive computation and rote application of rules and procedures).

In so doing, this six-year, \$27.9-million initiative seeks to determine whether it is possible and what it will take to lift at-risk students, district-wide, out of lower-track math classes and enable them to complete advanced math courses. Other funders include the DeWitt Wallace-Reader's Digest Fund, the Ford Foundation, and the National Science Foundation.

Pictured right:
Exploration, reasoning,
and problem solving
are central to mathe-
matics curricula in
Equity 2000, a program
assisted by the Founda-
tion for middle and
high schools to improve
poor and minority
students' prospects for
college enrollment
and/or employment.



Pictured below:
By creating and writing
about fictional charac-
ters, adding illustrations
such as this drawing of
a character's home,
sixth-graders enjoy
exercising their imagi-
nations while devel-
oping their writing and
artistic skills in the
Foundation-supported
PACE program. By
presenting and critiquing
their *in-progress* work,
the 11-year-olds also
sharpen their analytical
skills and learn from
the work of their class-
mates in this six-site
evaluation of the port-
folio method of student
assessment.

Photograph Excised Here



"For Children's Sake"
is a 14-part, how-to
video series and
manual now available
on the theory and
implementation
of Dr. James Comer's
School Development
Program.

SCHOOL
DEVELOPMENT
PROGRAM

At year-end, more than 200 schools from 22 participating school districts and three state initiatives were in the process of implementing Dr. Comer's School Development Program (SDP). This tested approach to reforming schools serving at-risk children stresses children's psychological preparation for school and collaboration of school staff and parents in children's academic and social development.

In addition to school-based team training for parents and staff that is under way at all the sites, Comer Project staff at Yale University prepared 200 more teachers, principals, and other professionals who have been designated by their participating districts and states to expand and manage the school-based team training. This included 50 principals from participating schools who took part in a four-day workshop further preparing them for their roles as agents for educational change. And 75 educators from 12 of the sites participated in a similar institute on building effective school-university partnerships.

"For Children's Sake," a 14-part, how-to video series and manual on SDP theory and implementation, went on sale this year. By taking the viewer into SDP schools to explain and demonstrate school planning and management teams, parents' programs, and the other elements of the process pioneered by Dr. Comer, this package aims to meet the growing demand for detailed school improvement information by schools, school districts, state departments of education, and collegiate teacher-training programs.

LEADERSHIP
TRAINING

The Michigan Partnership for New Education, with Foundation support, increased the scale of its program to conduct the first leadership-training sessions aimed at fostering educational improvement and school reform at the district level. Ten school districts with large proportions of at-risk students participated. This expansion built on earlier programs and provided district teams with special training in child development theory, school organization, multiculturalism, new instruction techniques, and other topics crucial to managing schools serving at-risk children. A similar leadership-training initiative operated by the University of New Mexico, recognizing the transition from elementary to middle school as a critical point for children who are at risk, expanded its program and has been training teams jointly representing middle schools and their "feeder" elementary schools in that state.



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Bellagio Study and Conference Center

Bellagio Study
and Conference Center

S

INCE THE FOUNDATION OPENED ITS BELLAGIO Study and Conference Center on Italy's Lake Como in 1959, this 50-acre facility has been a magnet for international conferences and for individual residencies on a wide range of topics.

This year 691 participants from 73 countries attended 32 conferences, most of which were sponsored or hosted by the Foundation as integral elements of its program priorities and international problem-solving efforts. Three examples:

- The Forum for African Women Educationalists was organized – and formulated an initial action agenda – during a Bellagio meeting this fall. Hosted by the Foundation, the meeting drew participants from 16 African countries, including cabinet-level ministers of education, vice chancellors, and other senior education and university administrators – all of whom are women. The Forum, with its emphasis on fostering female education on the continent, also received grant support (see page 101).

- A conference on Universal Primary Education in Bangladesh, convened by the Foundation, enabled the Bangladesh Rural Advancement Committee to present plans for a massive expansion of its primary education system and take the first steps toward creating a consortium of funders for this initiative.

- A group of national delegates from the global climate-change negotiations, academicians, members of nongovernmental organizations, and U.N. officials met at Bellagio prior to the U.N. Conference on Environment and Development and planned how interim organizations could implement the “Prompt Start” strategy that is carrying forward the work of the Rio conference.

While most of the conferences were related to the Foundation's programs, approximately a third of them this year were organized and conducted by groups from organizations and institutions outside the Foundation. This year, these institutions included the Universities of Illinois, Bologna, Milan, and Ghana; New Delhi's Institute of Economic Growth; and the U.S. Library of Congress.

A total of 132 individuals from 24 countries were in residence at the Bellagio Center for a month each during 1992 to work on their own projects. These included musical compositions for dance and for large chamber ensembles; such works of art as a diptych, a triptych, and two four-panel paintings, part of an ongoing series related to the work of Rembrandt and Raphael; several novels and collections of poetry; and scholarly writings that ranged from an examination of gender and religious resurgence in the Middle East to a book on reforming the American health care system, and from a book on the

Opposite page:
Bellagio conferences
and residencies,
which this year drew
813 individuals
from 76 countries,
reflect the Founda-
tion's international
commitment.



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chemistry and biology of the CO₂-fixing enzyme of photosynthesis to a book examining the African novel and the modernist tradition.

The complete list of this year's conferences and residents begins on page 100.

The Foundation seeks to track and record publications, performances, and exhibitions that stem from projects worked on at Bellagio by residents. This year the BBC Symphony Orchestra premiered John Casken's work *Still Mine*; the books published included John Searle's *The Rediscovery of the Mind*; Otto Friedrich's *Olympia: Paris in the Age of Manet*; Bassam Tibi's *Islamischer Fundamentalismus, moderne Wissenschaft und Technologie (Islamic Fundamentalism, Modern Science, and Technology)*; Nancy Scheper-Hughes' *Death Without Weeping: The Violence of Everyday Life in Brazil*; and Martin and Susan J. Tolchin's *Selling Our Security: The Erosion of America's Assets*.

A Foundation committee reviews applications for all conferences and residencies, which are selected on a competitive basis to reflect the Foundation's international commitments. Conferences must be international in their participation. Residencies are intended for scholars, artists, policymakers, and other professionals from all over the world whose projects will advance the individuals' fields of specialization.



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Other
Interests and
Initiatives

INTERNATIONAL
SECURITY



WHILE THE POSSIBILITY OF GLOBAL NUCLEAR WAR between the United States and nations of the former Soviet Union has receded, the possibility that weapons of mass destruction (nuclear, chemical, biological) might be used or specifically brandished is probably higher today than even during the height of the Cold War.

The Foundation's International Security program seeks to halt the proliferation of weapons of mass destruction by supporting efforts (1) that either come from the developing world or focus on a specific region of the developing world and (2) that would either stimulate confidence-building measures (i.e., steps giving target countries the sense of security needed to begin negotiations) or strengthen intellectual and policy linkages on security issues between developed and developing countries.

In 1992, funds were provided to the Wisconsin Project on Nuclear Arms Control to continue its innovative research on black-market trade in nuclear components and technology, to strengthen its successful media outreach, and to facilitate training of activist researchers from countries where proliferation is an issue.

An additional focus of the International Security program is to support a single grantee – Human Rights Watch – to establish the Arms Project, a research and public education initiative aimed at curbing the dissemination of all weapons to governments and guerrilla groups that engage in a pattern of gross abuse of human rights or gross violation of international humanitarian law. The Arms Project will seek to establish the rights of citizens of all nations to obtain information and express their views on the production, dissemination, and use of military weapons. As the project develops, increased attention will be given to weapons of mass destruction.

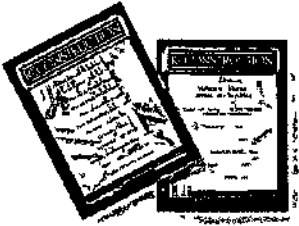
SPECIAL
INTERESTS AND
EXPLORATIONS

The Foundation's Special Interests and Explorations fund is used primarily for grants to a small number of important projects that would otherwise not be assisted because they do not meet the funding guidelines of the Foundation's principal programs. The major appropriations this year include support for:

- Production of a weekly public television series on educational and cultural topics, "In the Mix," for teenage audiences. The pilot, also produced by WNYC in New York and supported by an earlier grant, was so successful that the Public Broadcasting Service intends to distribute the series nationally.
- Development of a pilot community court in New York's Times Square aimed

in the mix

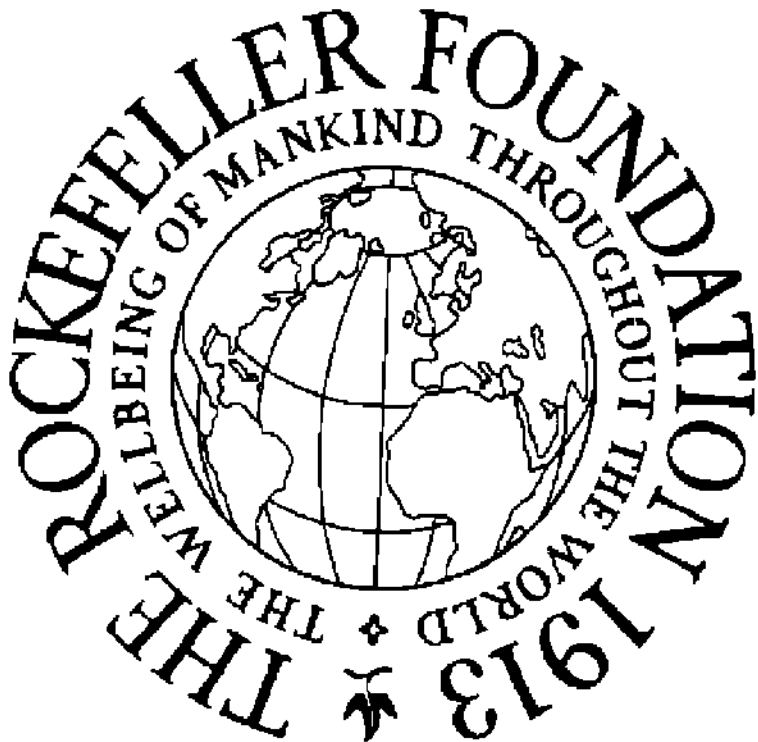
Described as a video supermarket by and for teens, *In the Mix* received Foundation assistance and made its debut this year as a weekly series on public television.



Reconstruction magazine received Foundation support as a new vehicle for wide-ranging commentary on African American politics, culture, and society.



The Time Dollar Project is using a Foundation grant to sustain and expand a network enabling individuals to bank credits for volunteer service which they can subsequently redeem when they need volunteer services themselves.



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A grant to the American Indian College Fund supports efforts to raise private sector funds for the country's 27 tribal colleges which have unparalleled success in retaining Native American students in fields relevant to their communities' needs.

Beloit College with Foundation assistance, is preserving the extensive photographic records of a 1909 China expedition. Findings from the expedition led to the founding of Peking Union Medical College and the China Medical Board which brought Western medicine to that country.

Simple Justice is a feature length film for public television blending drama and scholarship to recreate the two decades of legal battles to end segregation.

at clearing an overburdened central court calendar of misdemeanors, diverting local offenders into treatment and social-service programs, and engaging community residents in shaping the solutions to their own crime problems.

- Increase in the sample size of a social survey of U.S. sexual behavior, being conducted by the National Opinion Research Center, to improve the analytic power of the survey and, in particular, permit more refined subgroup analyses on behaviors that put populations at risk of AIDS and other sexually transmitted diseases.

- Advance planning by the New York Public Library for providing sophisticated information services to a wide audience of public, professional, and commercial users through the technologically advanced Science, Industry, and Business Library scheduled to open in 1995.

1992 Grants
and Fellowships

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 allocate 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.

- 58 International Program to Support Science-Based Development
- 58 Agricultural Sciences Grants
- 64 Health Sciences Grants
- 70 Population Sciences Grants
- 76 Global Environment Grants
- 78 African Initiatives Grants
- 82 Advanced Training Fellowships
- 83 Biotechnology Career Fellowships

- 64 Social Science Research Fellowships
- 85 Arts and Humanities Grants
- 93 Equal Opportunity Grants
- 97 School Reform Grants
- 100 Bellagio Study and Conference Center
- 108 Other Interests and Initiatives Grants

International Program
to Support Science-Based
Development

THIS PROGRAM PROVIDES FOCUS for three of the Foundation's divisions – agricultural sciences, health sciences, and population sciences – and the global environmental initiative. The objective is to help the developing world, on its own terms, to use modern science and technology to increase people's access to food, health, reproductive choice, education, housing, and employment opportunity. Within this context, the challenge before the world community, and a principal emphasis of this program, is to promote a more equitable sharing of the world's resources while avoiding environmentally unsound development practices.

Agricultural
Sciences Grants

The agricultural sciences division supports work: using biotechnology to improve crops that are developing-country staples; improving family food-production systems in Africa; and increasing knowledge for the management of natural resources.

APPLYING
BIOTECHNOLOGY TO
DEVELOPING-COUNTRY
FOOD CROPS

Basic and Applied Rice
Biotechnology
[1992 - \$2,600,000, in addition to
remaining funds from prior year
appropriations]
To support research and training
at industrialized-country laboratories
participating in the Foundation's
international program on rice
biotechnology.

John R. Ambler,
Lancaster, Pennsylvania

\$7,000
Toward the costs of completing a
Rice Transformation Manual.

Cornell University,
Ithaca, New York
\$592,900
For research on the genetic and physical
mapping of the rice genome.

Richard Jefferson, Center for the
Application of Molecular Biology
to International Agriculture,
Wageningen, Netherlands
\$110,250
For research on the development of
rice transformation vectors and assay
systems, and facilitation of their
dissemination to, and proper use in,
developing-country laboratories.

Kansas State University,
Manhattan
\$80,000
For research on genes for resistance
to the sheath blight pathogen of rice.

\$200,000
To support research on the isolation
and characterization of avirulence
genes from *Xanthomonas campestris*
pv. *oryzae*.

\$10,000
For research on inhibitors of digestive
enzymes of insect pests of rice.

Kyoto Prefectural University,
Japan
\$5,000
For research, using genetic engi-
neering, to improve the digestibility
and nutritive quality of rice storage
proteins.

Lehman College,
Bronx, New York
\$33,600
For research on improving the
carotenoid content of rice endosperm

Michigan State University,
East Lansing
\$48,300
For research on the genetic analysis of
brown planthopper biotypes.

Ohio State University,
Columbus
\$125,000
For research at the university on the
enhancement of nitrogen assimilation
and proline synthesis in rice.

\$25,500
Toward the costs of establishing
an international, interactive Rice
Biotechnology Electronic Network
(*RBNET*)

\$64,100
For research on the determination
of receptor binding properties of
various δ -endotoxins to rice stem
borers' midguts.

Purdue University,
West Lafayette, Indiana
\$450,235
Toward the costs of research on the
regeneration of rice plants from callus,
cells, and protoplasts.

Rutgers University,
New Brunswick, New Jersey
\$75,100
For research on molecular signaling
during systemic acquired resistance
in rice.

Stanford University,
California
\$30,115
Toward the costs of an International
Consultation on Rice Biosafety in
South-East Asia, held September
1-3, 1992, in Cholburi, Thailand.

Swiss Federal Institute of
Technology, (ETH Zurich),
Zurich
\$200,000
Toward the costs of research on the
development of a genetic transforma-
tion system for *indica* rice varieties.

University of California,
Berkeley
\$59,200
For research on the induction of the
maize transposon *Dx* into rice.

University of Fribourg,
Switzerland
\$66,625
For research on molecular signaling during
systemic acquired resistance in rice.

University of Liverpool,
England

- \$12,410
For research on the ability of rice endosperm to make carotenoid precursors.
- University of Montreal,
Canada
\$11,650
For research on the molecular basis of water-stress induced reproductive failure in rice.
- University of Nottingham,
England
\$120,000
Toward the costs of research on rice protoplasts and transgenic plant production.
- University of Tokyo,
Japan
\$200,000
For use by its Institute of Applied Microbiology in collaborative research on large-scale isolation, characterization, and mapping of cDNA clones in rice.
- Virginia Polytechnic Institute and State University,
Blacksburg
\$184,000
For research on the application of RFLP mapping to hybrid rice breeding.
- Foundation-administered project
\$50,000
For administrative costs associated with implementing the Foundation's program for applying biotechnology to developing-country food crops.
- Biotechnology Training in Latin America and Africa
[1991 - \$300,000]
To help develop and support crop biotechnology training programs at selected institutions in Latin America and Africa.
- International Service for the Acquisition of Agri-Biotech Applications (ISAAA),
Washington, D.C.
\$50,000
Toward the costs of a workshop on biosafety - the regulation of recombinant products, particularly field testing of transgenic crops - held in San José, Costa Rica, February 17-21, 1992.
- Sheunesu Mpeperekwi,
University of Zimbabwe,
Harare
- \$3,840
To attend the "Workshop on Environmental Applications for Gene Probe Methodologies," held at Michigan State University, July 20-August 7, 1992.
- Foundation-administered project
\$96,000
For costs of enabling up to 20 scientists from countries in southern and eastern Africa to participate in a workshop on plant tissue culture held at Bunda College, University of Malawi, March 22-April 2, 1993.
- Cassava Biotechnology
[1991 - \$800,000, in addition to remaining funds from prior year appropriations]
To support the further development of an international network for biotechnology research on cassava.
- Chinese Academy of Sciences,
Beijing
\$33,400
For use by its South China Institute of Botany, Guangzhou, in enabling Li GengGuang to conduct research on the transformation and regeneration of cassava at the Scripps Research Institute.
- Purdue University,
West Lafayette, Indiana
\$100,000
For research on the transformation of cassava using improved *Agrobacterium* strains.
- Cassava: Improvement Priorities and Molecular Mapping
[1991 - \$800,000]
To determine, through analysis of African socioeconomic data, the priority traits of cassava on which plant breeders should focus, and to generate a molecular map of cassava and related species that will help breeders address these priorities more efficiently.
- International Center for Tropical Agriculture (CIAT),
Cali, Colombia
\$10,000
For use by the Cassava Biotechnology Network toward the travel costs of speakers invited to attend the network's First International Scientific Meeting, held August 25-28, 1992, in Cartagena, Colombia.
- International Institute of Tropical Agriculture (IITA),
Ibadan, Nigeria
\$60,720
To provide technical assistance for the socioeconomic study of cassava in Africa.
- Washington University,
St. Louis, Missouri
\$150,000
For research on the development of molecular techniques for identifying cassava genotypes.
- Commonwealth Scientific and Industrial Research Organization (CSIRO),
Canberra, Australia
\$53,000
For research on apomixis in *Arabidopsis thaliana*.
- Crop Genetic Maps - Training and Technology Transfer
[1990 - \$600,000]
To enable scientists from third-world, crop-breeding institutions to participate in the development of molecular genetic maps, and to help them make use of the resulting technology on their return home.
- Jia Jizeng, Institute of Crop Germplasm, Chinese Academy of Sciences,
Beijing
\$3,800
To continue advanced training in RFLP technology applied to wheat germplasm at the John Innes Institute, Norwich, England.
- International Biosafety Commission
[1992 - \$400,000]
To assist the Stockholm Environment Institute, Sweden, in establishing an international Biotechnology Advisory Commission to which developing countries can apply for advice on the risks and benefits associated with the release of genetically engineered organisms. (Joint appropriation with Arts and Humanities, for a total of \$500,000.)
- Stockholm Environment Institute - International Institute for Environmental Technology and Management, Sweden
\$400,000
- Toward the costs of establishing an international Biotechnology Advisory Commission.
- International Service for National Agricultural Research (ISNAR),
The Hague, Netherlands
\$30,000
Toward the costs of a training workshop on research management skills for new research directors of national institutes, centers, projects, or stations in Asia.
- National Priorities for Rice Biotechnology
[1992 - \$600,000, in addition to remaining funds from prior year appropriations]
To provide several Asian countries with a quantitative, systematically derived basis for allocating rice biotechnology research resources.
- Gadjah Mada University,
Yogyakarta, Indonesia
\$75,000
For a project to develop a quantitative, systematically derived basis for determining rice research priorities in Indonesia
- Rutgers University,
New Brunswick, New Jersey
\$43,750
For a project, designed to help developing countries acquire a systematically derived basis for allocating their rice biotechnology research investments, that uses India as a case study.
- Stanford University,
California
\$19,740
For a study by the Food Research Institute on natural resistance and Pesticides in Chinese rice production.
- Foundation-administered project
\$1,068
For the costs of preparing for publication a manuscript, *Modern Rice Technology and Income Distribution in Asia*.
- Rice Biotechnology at International Centers
[1992 - \$1,000,000, in addition to remaining funds from prior year appropriations]

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

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

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

International Rice Research Institute (IRRI),
Manila, Philippines
\$700,000

For continued research on the application of biotechnology to rice improvement including wide hybridization rice genetics molecular techniques in rice pathology use of *Bacillus thuringiensis* genes genome mapping and genetic engineering

\$88,000

For research on the application of molecular markers to rice breeding to be conducted at IRRI by Dr. Shailaja Hittalmani

\$50,7000

Toward the costs of a third Rice Biotechnology Training Course for developing-country scientists

\$98,000

For research on the terminal sequencing of mapped rice genomic probes

Foundation-administered project
\$27,000

For administrative support for the Rockefeller Foundation biotechnology program in India

Yves Savidan, International Network for Apicomplex Research,
Mexico City, Mexico
\$5,000

Toward the costs of publishing the *Apicomplex Newsletter* and distributing it to scientists in developing countries

Sorghum and Millet Biotechnology [1992 - \$700,000]

To further the development of molecular genetic techniques for sorghum and millet improvement and to train developing-country scientists in their use

Texas A & M Research Foundation,
College Station
\$200,000

For the development of a genetic map of sorghum and to train developing-country scientists in its use for sorghum improvement

Strengthening Chinese Universities [1992 - \$10,000]

To test a pilot fellowship program designed to strengthen Chinese universities for science-based development that enables young Chinese scientists and engineers who have remained in North America to serve as part-time adjunct professors at three universities in Beijing (Joint appropriation with Health Sciences and Population Sciences for a total of \$350,000)

Cornell University,
Ithaca, New York
\$350,000

Toward the costs of a fellowship program designed to strengthen Chinese universities for science-based development by enabling young Chinese scientists and engineers who have remained in North America to serve as part-time adjunct professors at leading universities in China

Transfer of Rice Biotechnology to Developing Countries

[1992 - \$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

Beijing Agricultural University,
China
\$100,000

For research on molecular approaches to generating rice lines with improved and long-lasting resistance to the rice blast fungus

China National Center for Biotechnology Development,
Beijing
\$18,000

Toward the costs of the Asia-Pacific Conference on Agricultural Biotechnology, held in Beijing, August 20-24, 1992

China National Rice Research Institute,

Hangzhou
\$110,000

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

Chinese Academy of Sciences,
Beijing
\$31,000

For use by its South China Institute of Botany, Guangzhou in enabling Ling Ding-hou, head of the institute's genetics department to conduct research on the genetic transformation of, and subsequent plant regeneration from protoplasts of rice in the laboratory of Ingo Potrykus, Swiss Federal Institute of Technology, Zurich

\$33,700

For use by its Institute of Genetics to enable faculty member Tian Wenzhong to spend a year at the Scripps Research Institute conducting research on anther and cell culture of rice

\$25,000

For use by its Institute of Genetics in research on the transference of genes into rice

\$25,640

For use by its Shanghai Institute of Plant Physiology for research on *Agrobacterium tumefaciens* mediated transformation of rice to be conducted at the University of Washington by Dr. Bai Yongyan, Visiting Scientist, Research Fellow in Rice Biotechnology

Fujian Agricultural College,
Fouchou City, China
\$20,000

For research on the evaluation of rice plants transformed with the rice tungro baculiform virus coat protein gene for resistance to Chinese rice tungro viruses

Haryana Agricultural University,
Hisar, India
\$130,000

For research on the application of biotechnology to the genetic improvement of rice

Huazhong Agricultural University,
Wuhan, Hubei, China
\$216,000

For research on the application of RFLP mapping to hybrid rice breeding

\$6,000

For collaborative research with the International Rice Research Institute, Manila, Philippines, on the toxicity of *Bacillus thuringiensis* against the yellow stem borer, a serious pest of rice in both countries

Indian Council of Agricultural Research (ICAR),
New Delhi
\$200,000

For use by its Directorate of Rice Research in developing rice biotechnology

\$75,000

For use by the ICAR Research Complex for the North-East Hill Region in conducting research on the transfer of male sterility in *indica* rice through protoplast fusion

\$167,000

For use by its Indian Agricultural Research Institute in conducting research on the application of biotechnology to the improvement of *indica* rice

Indian Institute of Science,
Bangalore
\$125,500

For research on cloning developmentally important genes for *Arabidopsis thaliana* and *Oryza sativa*

Wang Jun, Shanghai Institute of Plant Physiology,
China
\$31,400

To spend a year at the Salk Institute conducting research on the genetic engineering of rice for pathogen resistance

Kasetsart University,
Bangkok, Thailand
\$16,600

For research on the insecticidal activity of local strains of *Bacillus thuringiensis* against rice stem borers

\$39,000

Toward the costs of a training course in Restriction Fragment Length Polymorphism (RFLP) techniques and applications held at the university, October 26-November 6, 1992

\$2,000

Toward the costs of sending a representative from Kasetsart University, Supat Attahom to the Asia-Pacific

Conference on Agricultural Biotechnology, held in Beijing, China, August 20-24, 1992.

\$149,000

For research to identify the quantitative trait linkage (QTL) controlling submergence tolerance in lowland rice.

Nanjing University, China

\$17,000

For research in rice genetic engineering, to be conducted by Wang Man-si, associate professor of biology, under a visiting scientist research fellowship at Purdue University.

Osmania University, Hyderabad, India

\$17,000

For research on the genetic and physiological aspects of anther culture in *indica* rice.

Punjab Agricultural University, Ludhiana, India

\$140,000

For research on somatic cell, protoplast and anther culture of *indica* rice.

Research Laboratory for Agricultural Biology and Biochemistry,

Kathmandu, Nepal

\$30,000

For research on anther culture techniques applicable to producing cold-tolerant rice varieties

Tamil Nadu Agricultural University, Coimbatore, India

\$10,000

For research on the fusion of *indica* and *japonica* rice protoplasts to be conducted at Hokkaido University, Sapporo, Japan, by S. Sukumar, Visiting Scientist Research Fellow in Rice Biotechnology

\$17,000

For research on the role of plant hormones in the regulation of gene expression to be conducted at the University of California, Riverside by Dr. S. Sadasivam, Postdoctoral Fellow in Rice Biotechnology.

United States Department of Agriculture, Washington, D.C.

\$10,000

For use by the Plant Genome Research Program of the Agricultural Research Service toward the travel

costs of third-world scientists attending the Plant Genome I meeting, held in San Diego, November 9-11, 1992

University of the Philippines at Los Baños

\$50,000

For use by its Department of Plant Pathology, Laguna, for research on the molecular-biology-based detection of rice tungro viruses in rice.

University of the Punjab, Lahore, Pakistan

\$34,600

For a study of the expression of Bt toxin genes in rice, to be conducted by Sheikh Riazuddin, director of the university's Centre for Advanced Molecular Biology, under the direction of Milton P. Gordon, Department of Biochemistry, University of Washington

Zhejiang Agricultural University, Hangzhou, China

\$20,300

For research, collaborative with the China National Rice Research Institute, on proteins antagonistic to rice bacterial leaf blight and the genes encoding the proteins.

Foundation-administered projects

\$100,000

For costs of the sixth annual meeting of the Foundation's International Program on Rice Biotechnology, held in Chiang Mai, Thailand, February 1993.

\$35,000

For costs of the International Consultation on Rice Biosafety in South-East Asia, held September 1-3, 1992, in Choburi, Thailand.

\$50,000

For administrative and training costs of the program.

\$120,000

Toward costs of a workshop on "Anther Culture in Rice Breeding," held at the China National Rice Research Institute, Hangzhou, October 12-24, 1992.

\$18,000

For travel costs and accommodation expenses for Asian scientists and administrators attending an International Consultation on Rice Biosafety in South-East Asia,

held September 1-3, 1992, in Choburi, Thailand.

University of Minnesota, Minneapolis

\$60,000

Toward the costs of training developing-country scientists in DNA marker technology in *Vigna* and its applications to crop improvement in the developing world.

Foundation-administered project

\$27,830

For costs of the second Foundation-sponsored seminar for journalists on the subject of international agricultural research and development, held in April 1992 in Annapolis.

STRENGTHENING FOOD PRODUCTION SYSTEMS IN AFRICA

African Meteorological Society, Bujumbura, Burundi

\$10,000

Toward the costs of its first international conference, "Recent Climate Anomalies and Prediction in Africa," held in Nairobi, Kenya, December 7-11, 1992.

Department of Agricultural Research, Ministry of Agriculture, Lilongwe, Malawi

\$10,000

Toward the costs of a Plant Protection Services Workshop.

Fertilizer-Efficient Maize for Southern Africa

[1992 - \$120,000]

To evaluate selected maize varieties for their tolerance to nutrient-poor status soils in Mozambique and elsewhere in southern Africa.

International Maize and Wheat Improvement Center (CIMMYT), Mexico City, Mexico

\$74,560

Toward the cost of a project on N-Efficient Maize in Mozambique, Malawi, and Zimbabwe.

Forum on Agricultural Resource Husbandry

[1991 - \$350,000]

To help improve graduate education at selected faculties of agriculture in eastern and southern Africa by initiating an African-directed competitive grants program that encourages faculty members and students, in collaboration with national research personnel, to undertake multidisciplinary field research on resource management.

\$30,000

For the costs of assisting preparation of project proposals.

Government of Malawi, Department of Agricultural Research

[1992 - \$400,000, in addition to remaining funds from prior year appropriations]

To strengthen the Department's agro-forestry program, aimed at improving productivity on small farms,

[1992 - \$350,000, in addition to remaining funds from prior year appropriations]

To continue strengthening the capacity of Malawian researchers to design and conduct a maize research program that addresses the needs of small farmers.

Government of Zimbabwe, Ministry of Lands, Agriculture and Rural Resettlement, Harare

\$65,000

For use by its Department of Research and Specialist Services toward the costs of a project for the maintenance of sorghum landraces in Zimbabwe.

Integrated Banana Research in Uganda

[1992 - \$445,000]

To define the role of pests and pathogens in constraining banana production in Uganda, and devise biological control measures for the most important insect pests

International Centre for Insect Physiology and Ecology (ICIPE), Nairobi, Kenya

[1992 - \$272,580, in addition to remaining funds from prior year appropriations]

To continue support for its Social Science Interface Research Unit.

- \$7,000**
Toward activities of the "Friends of ICIPE," a collaborating component of the center based in the U.S.
- \$5,500**
For the airfare and living expenses of a consultant to advise its Social Science Interface Research Unit.
- International Centre for Research in Agroforestry (ICRAF),**
Nairobi, Kenya
[1992 - \$700,000, in addition to remaining funds from prior year appropriations]
To support the networking and research activities of its Tropical Soil Biology and Fertility Programme (TSBF) in Africa, including field research projects in Zimbabwe and Zambia
- \$15,800**
For a research project aimed at improving the knowledge base in socioeconomic and biophysical aspects of agroforestry systems in the highlands of Rwanda and Burundi.
- International Institute of Tropical Agriculture (IITA),**
Ibadan, Nigeria
\$10,000
Toward the costs of a project on the dynamics of farmers' resource management strategies in the forest zone of Cameroon (Joint grant with African Initiatives, for a total of \$20,000.)
- International Maize and Wheat Improvement Center (CIMMYT),**
Mexico City, Mexico
\$20,000
Toward the costs of the Fourth Eastern and Southern Africa Regional Maize Conference, "Maize Research for Stress Environments," held in Harare, Zimbabwe, March 8-12, 1993.
- International Rural Sociology Association,**
East Lansing, Michigan
\$15,000
Toward the expenses of African nationals attending the Eighth World Congress for Rural Sociology, held August 11-16, 1992, at Pennsylvania State University.
- Kenya Agricultural Research Institute,**
Nairobi
\$8,500
For publication of the proceedings of a symposium on the application of geographic information systems in Kenya
- Kenya Forestry Research Institute,**
Nairobi
\$2,714
Toward the costs of establishing plots necessary for research on alley cropping *Calliandra calothyrsus* with maize in smallholder agroecosystems in Embu, Kenya
- Makerere University,**
Kampala, Uganda
\$70,500
To support its Master's Program in Agricultural Economics.
- Measuring Agricultural Constraints in Eastern and Southern Africa**
[1992 - \$750,000, in addition to remaining funds from prior year appropriations]
To develop analytic tools that will measure the extent of physical, biological, and socioeconomic constraints on agricultural production as guides for research and technology application in Eastern and Southern Africa.
- African Wildlife Foundation,**
Washington, D.C.
\$24,370
Toward the costs of a remote-sensing research project on changes in land use and the implications for future range management in the Amboseli, Kenya, ecosystem.
- International Centre for Research in Agroforestry (ICRAF),**
Nairobi, Kenya
\$20,000
Toward the costs of a project formulation proposal on integrated resource management research for the highlands of East and Central Africa
- \$81,380**
For use by its Tropical Soil Biology and Fertility program in a project examining soil management in East Africa at a range of geographic scales
- International Maize and Wheat Improvement Center (CIMMYT),**
- Mexico City, Mexico**
\$160,000
Toward the costs of collaborating with the Kenya Agriculture Research Institute on building a maize database for Kenya
- Makerere University,**
Kampala, Uganda
\$34,140
For the continuation of the soil erosion study
- University of Bern,**
Switzerland
\$200,000
For use by its Institute of Geography's Group for Development and Environment in continued collaborative research with the University of Nairobi on the socioeconomic dynamics and sustainable use of water and soil resources in the semiarid Laikipia District of Kenya
- Foundation-administered project**
\$57,000
For the final phase in the preparation and distribution of a soils bibliographic database for East Africa.
- Soils Research in Africa**
[1989 - \$200,000, in addition to remaining funds from prior year appropriations]
To strengthen international soils research efforts directed toward sustainable crop production systems for Africa.
- Makerere University,**
Kampala, Uganda
\$27,860
Toward the costs of evaluating a state-of-the-art water erosion prediction technology for assessing soil erosion in the highlands of southwestern Uganda
- Tropical Soil Biology and Fertility Programme,**
Nairobi, Kenya
\$20,000
To support its project, the Rhizobium Ecology Network of East and Southern Africa (RENEASA).
- University of California,**
Santa Barbara
\$66,600
Toward the costs of a project for integrating data obtained in the Collaborative Study of Cassava in
- Africa into a geographical information system designed to permit analysis of the data through the use of spatial analytic techniques*
- University of Malawi,**
Zomba
\$107,000
Toward phase-I automation of its Central Library Service Unit.
- University of Minnesota,**
Minneapolis
\$15,000
Toward the costs of preparing for publication two book-length manuscripts resulting from Foundation-funded investigations into issues of sustainable agricultural development into the 21st century.
- University of Nairobi,**
Kenya
\$25,000
For use by its Institute for Development Studies toward the costs of a workshop, "Strategic Planning for Agriculture: Creating Incentives for Growth and Development at the District Level."
- University of Wisconsin,**
Madison
[1992 - \$460,000]
To provide academic enrichment to African graduate students enrolled in agricultural programs in United States universities with a view to improving the quality and relevance to African development of their doctoral research.
- University of Zimbabwe,**
Harare
\$8,400
Toward the costs of a conference on smallholder micro-irrigation schemes in Zimbabwe
- \$37,500**
For a survey of maize viruses in Zimbabwe: detection, identification, and distribution of maize viruses and strains and their vectors.
- World Association of Soil and Water Conservation,**
Volga, South Dakota
\$20,000

In support of its project in Africa dealing with the needs for research on and information about the management of organic matter

INCREASING KNOWLEDGE
FOR THE MANAGEMENT
OF NATURAL RESOURCES

Chiang Mai University,
Thailand
[1992 - \$277,000]
To help the Faculty of Agriculture (1) build a research program aimed at improving the sustainable productivity of the country's northern highlands, and (2) incorporate that work in a new master's degree program in natural resources management

Colégio de Postgraduados,
Montecillo, Mexico
\$2,750
Toward the costs of publishing the results of a symposium on Agroecology and Education held in Montesillos, Mexico in August, 1992

Cornell University,
Ithaca, New York
\$5,000
For use by the Cornell International Institute for Food, Agriculture and Development toward the costs of an international workshop on slash/mulch systems, held in Turrialba, Costa Rica, October 12-16, 1992

Duang Prateep Foundation,
Bangkok, Thailand
\$5,000
Toward the costs of its Young Women's Development Program

Essential Agricultural Library
[1991 - \$350,000]
To complete the identification of a core agricultural sciences library for developing countries and to facilitate production of the full text in electronic format

Cornell University,
Ithaca, New York
\$171,140
To complete the identification of agricultural books and journals most important for developing-country libraries

Gestión de Ecosistemas Asociación
Civil,
Mexico City, Mexico
\$50,000
Toward the costs of forming an advisory group on tropical ecology

Harvard University,
Cambridge, Massachusetts
[1992 - \$440,000, in addition to remaining funds from prior year appropriations]
To estimate the total value of examples of several major types of tropical forests of Southeast Asian tropical forests, and devise management systems for them that will optimize the sustainable value of the forests' market and non-market goods and services

International Centre for Research in
Agroforestry (ICRAF),
Nairobi, Kenya
\$13,800
Toward the costs of its 1992 introductory course on agroforestry research for development, held in Nairobi, October 12-30, 1992

International Irrigation Management
Institute (IIMI),
Colombo, Sri Lanka
[1992 - \$200,000, in addition to remaining funds from prior appropriations]
To conclude support for its research to develop quantifying measures of irrigation performance

Kasetsart University,
Bangkok, Thailand
\$18,400
To support the participation of two candidates from India at the sixth annual Certificate Course in Community Forestry of the university's Regional Community Forestry Training Center

Latin American Consortium on
Agroecology and Development,
Santiago, Chile
\$20,000
In support of a three-month graduate course in agroecology and sustainable development, initiating joint activities on this topic by selected Latin American universities and nongovernmental organizations

Natural Resources Management -
Mexico
[1992 - \$200,000]
To begin a process in which Mexican scientists, smallholders, and members of nongovernmental organizations, working in teams, will (1) evaluate a set of existing field projects, (2) use these as "laboratories" for developing sustainable farming and natural resource management models for the country's resource-poor farmers, and (3) function as a network in bringing new technologies to the attention of smallholders and NGOs

Oregon State University,
Corvallis
\$22,390
To assist faculty members at Chiang Mai University, Thailand, in developing a master's degree program curriculum in natural resources management

Pesticide Use Environment and
Health
[1991 - \$600,000]
To provide the basis for an improved understanding of the agricultural, environmental, and health effects of agricultural pesticide use in developing countries (Joint appropriation with Health Sciences, for a total of \$800,000)

International Potato Center (CIP),
Lima, Peru
\$14,300
For research on the health effects of pesticide use in Ecuadorean potato production (Joint allocation with Health Sciences, for a total of \$49,500)

Makerere University,
Kampala, Uganda
\$85,970
For research analyzing the use and fate of pesticides in Uganda

Montana State University,
Bozeman, Montana
\$37,840
For research on the health effects of pesticide use in Ecuadorean potato production (Joint allocation with Health Sciences, for a total of \$37,840)

Foundation-administered project
\$50,000

Toward the costs of a conference, "Measuring the Health and Environmental Effects of Pesticides," held at the Bellagio Study and Conference Center, March 30-April 3, 1992 (Joint allocation with Health Sciences, for a total of \$100,000)

Plant Science Human Capital for
Latin America
[1992 - \$650,000, in addition to remaining funds from prior year appropriations]
To strengthen the capacity of Latin American institutions to provide advanced training and conduct research in the disciplines that undergird sustainable utilization and conservation of tropical forests

Corporacion para El Desarrollo
de Las Ciencias
Vegetales en America Latina,
Santiago, Chile
\$350,000
To support network activities aimed at furthering the study, instruction, and research of the plant sciences in Latin America

Society for Promotion of Wastelands
Development,
New Delhi, India
\$50,000
Toward the costs of establishing a resource economics unit

Universidad Autónoma Chapingo,
Mexico
\$50,000
In support of planning, training, and curriculum development activities aimed at strengthening its Center of Agroforestry for Sustainable Development

World Bank,
Washington, D C
\$25,000
Toward the costs of the 1993 mid-term meeting of the Consultative Group on International Agricultural Research

World Resources Institute,
Washington, D C
\$30,000
For the work of its Committee on Agricultural Sustainability for Developing Countries

Youth for Action.
Hyderabad, India
\$10,000
Toward the costs of a workshop on approaches to improving management of natural resources at the village level

Foundation-administered projects
\$112,000
Toward the cost of a Foundation-sponsored project to examine the concept of sustainable agriculture and evaluate long-term agronomic experiments

\$20,000
Toward the costs of Foundation-sponsored planning activities aimed at developing a natural resource management program for Mexico

FELLOWSHIPS

Biotechnology Career Fellowships
[1992 - \$440,000 in addition to remaining funds from prior year appropriations]
To assist excellent young scientists based in the third world to become

leaders in the development and application of biotechnology that offers promise for improving the living conditions of poor people (Jointly funded with Health Sciences and Population Sciences, for a total of \$1,140,000)

\$50,000
Program support expenses

Social Science Research Fellowships in Agriculture
[1992 - \$700,000 in addition to remaining funds from prior year appropriations]
To build a cadre of outstanding North American and African social scientists having experience as members of multidisciplinary teams of international agricultural research institutes, and in the process to help those institutes (1) enhance their outreach to national agricultural research systems and (2) incorporate a farmer perspective into problem identification and research strategy

\$25,000
For administrative expenses of the program

Guadalupe, Costa Rica
\$7,000
To cover printing costs for its Spanish-language edition of the book Cholera and Hygiene

British Columbia Institute of Technology,
Burnaby, Canada
\$100,000
Toward the costs of a survey, to be conducted jointly with the University of Yaounde, Cameroon, and the World Health Organization, of the clinical and diagnostic equipment available in the medical facilities of Cameroon

Caravajal Foundation,
Cali, Colombia
\$29,012
Toward the costs of an external evaluation of its Health and Population Program (Joint grant with Population Sciences, for a total of \$56,050 Also listed under the division's third guideline, Family and Community-Based Health Initiatives)

Comitán Center for Health Research,
Chiapas, Mexico
\$100,000
To help the Center expand its local and regional interventional capabilities and integrate research findings into community-based health programs

Cornell University,
Ithaca, New York
\$37,000
To complete analysis of the data from a three-year research project - collaborative between Cornell, UNICEF, and Christian Medical College and Hospital, Vellore India - testing the effectiveness of a package of interventions for monitoring the growth of young children in southern India

Educational Commission for Foreign Medical Graduates,
Philadelphia, Pennsylvania
\$30,240
For support of its international medical scholars program

Essential National Health Research
[1991 - \$200,000]
To support the efforts of the Task

Force on Health Research for Development to assist developing countries in planning national health research programs relevant to their priority health needs

International Development Research Centre,
Ottawa, Canada
\$200,000
In support of the efforts of the Task Force on Health Research for Development to help developing countries plan national health research programs relevant to their priority health needs

Foundation for International Scientific Cooperation (U S Committee for Scientific Cooperation with Vietnam),
Madison, Wisconsin
\$60,000
In support of its program to improve the disease surveillance systems of Vietnam and Laos

Harvard University,
Cambridge, Massachusetts
\$50,000
Toward the costs of a study on international mental and behavioral health

\$100,000
In support of a study entitled "Improving the targeting of national health care resources in developing countries"

\$10,000
Toward the costs of a case study on the global burden of disease

Imperial College of Science Technology and Medicine,
London, England
\$50,000
For the start-up costs of a study in Ghana in conjunction with the "Partnership in Child Development Initiative"

International Clinical Epidemiology Network (INCLEN),
[1992 - \$450,000, in addition to remaining funds from prior year appropriations]
(1) To continue support for core activities of the International Clinical Epidemiology Network (INCLEN) that link 27 clinical

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

Roy Acheson,
Cambridge, England
\$30,000
To enable him to continue writing a biography of Wickhffe Rose

Aga Khan Foundation, U.S.A.,
Washington, D.C.
\$100,000
Toward continuation of its "Primary

Health Care Management Advancement Programme"

American Academy of Pediatrics,
Elk Grove Village, Illinois
\$4,900
Toward the expenses of third-world delegates attending a planning meeting for the development of an international child health curriculum held in September 1992 in conjunction with International Pediatric Association Conference in Brazil

Asociación para la Investigación de la Salud,

epidemiology units in developing countries with five clinical epidemiology resource and training centers (CERTCs) as well as for the training provided by the CERTCs at the University of North Carolina the University of Pennsylvania and the University of Toronto and (2) to begin Phase II of INCLEN the transfer of training responsibility to selected institutions with clinical epidemiology units	<i>In core support of its Clinical Epidemiology Unit</i>	Universidad de la Frontera Temuco, Chile \$25,000 <i>In core support of its Clinical Epidemiology Unit</i>	\$150,000 <i>For Phase II activities toward its becoming a clinical epidemiology resource and training center for the Network</i>
Addis Ababa University, Ethiopia \$5,000 <i>For a biostatistical research project on measles immunization in selected rural areas of Ethiopia</i>	Mahidol University, Bangkok, Thailand \$25,000 <i>In core support of its Clinical Epidemiology Unit</i>	University of Arizona, Tucson \$100,000 <i>In support of a project to provide continuing education for the Network's social scientists</i>	\$5,000 <i>In support of a clinical epidemiology research project on the prevalence of rheumatic diseases among Filipinos in an urban community</i>
Chulalongkorn University, Bangkok, Thailand \$250,000 <i>For Phase II activities, joint with Khon Kaen and Mahidol universities in Thailand leading to the three becoming a clinical epidemiology resource and training center for the Network</i>	Makerere University, Kampala, Uganda \$50,000 <i>In core support of its Clinical Epidemiology Unit</i>	University of Chile, Santiago \$25,000 <i>In core support of its Clinical Epidemiology Unit</i>	University of Toronto, Ontario, Canada \$145,000 <i>In support of its short courses in Health Care Evaluation and Management Skills and Level II Management Training</i>
\$25,000 <i>In core support of its Clinical Epidemiology Unit</i>	Moi University, Eldoret, Kenya \$5,000 <i>In support of a retrospective analysis of the management of highland malaria in children at the Eldoret District Hospital</i>	University of Nairobi, Kenya \$4,540 <i>For a clinical epidemiology research project on knowledge attitudes and beliefs regarding sickle-cell anemia in children</i>	University of Yaoundé, Cameroon \$25,000 <i>In core support of its Clinical Epidemiology Unit</i>
Emory University, Atlanta, Georgia \$7,500 <i>For expenses related to the Environmental and Occupational Health initiative</i>	\$5,000 <i>In support of a research project to determine the sero-prevalence of human immunodeficiency virus hepatitis B virus and syphilis in donor blood and in different population groups of patients at the Eldoret District Hospital</i>	\$25,160 <i>In core support of its Clinical Epidemiology Unit</i>	\$10,000 <i>For purchase of computers for its Clinical Epidemiology Unit</i>
Gadjah Mada University, Yogyakarta, Indonesia \$150,000 <i>For Phase II activities toward its becoming a clinical epidemiology resource and training center for the Network</i>	Pontificia Universidad Javeriana, Bogota, Colombia \$25,000 <i>In core support of its Clinical Epidemiology Unit</i>	University of Newcastle, Australia \$1,000,000 <i>In support of its Clinical Epidemiology Resource and Training Center</i>	University of Zimbabwe, Harare \$50,000 <i>In core support of its Clinical Epidemiology Unit</i>
INCLEN, Inc., Philadelphia, Pennsylvania \$657,918 <i>In core support of its Executive Office</i>	\$100,000 <i>For initial activities toward becoming a clinical epidemiology resource and training center for the Network</i>	University of North Carolina at Chapel Hill \$500,000 <i>In support of its Clinical Epidemiology Resource and Training Center</i>	15,000 <i>Toward the costs of a Faculty of Medicine curriculum review workshop held September 23-27 1992</i>
\$300,000 <i>Toward the costs of the Network's eleventh annual meeting held January 24-29, 1993, in Cairo, Egypt</i>	Suez Canal University, Ismailia, Egypt \$5,000 <i>In support of a clinical epidemiology research project on the pattern and determinants of health service utilization in Ismailia</i>	University of Pennsylvania, Philadelphia \$590,000 <i>In support of its Clinical Epidemiology Resource and Training Center</i>	Foundation-administered projects \$200,000 <i>Toward costs of the tenth annual meeting of INCLEN held in Bali Indonesia January 19-24 1992</i>
\$40,000 <i>For two Program Committee Meetings</i>	\$10,000 <i>In support of a research project on risk factors for bladder cancer in Egypt</i>	University of the Philippines, Manila \$25,000 <i>In core support of its Clinical Epidemiology Unit</i>	\$150,000 <i>For interchange activities</i>
Khon Kaen University, Thailand \$25,000	\$5,000 <i>For a clinical epidemiology research project on serologic response to measles vaccination in Ismailia</i>	\$25,000 <i>In support of a research project to assess the respiratory health profile of children aged 6-15 years living in communities around the Makiling-Banahaw geothermal power generating plants</i>	D I Ivanovsky Institute of Virology, Moscow, Russia \$25,000 <i>Toward the travel and living costs of developing-country participants attending its international symposium 100 Years of Virology</i>
	\$25,000 <i>In core support of its Clinical Epidemiology Unit</i>		Johns Hopkins University, Baltimore, Maryland \$75,000

For use by its School of Hygiene and Public Health toward the costs of strategic re-evaluation and planning for appropriate public health training and research.

Mahidol University,
Bangkok, Thailand
\$30,000

For the travel costs and other expenses of up to 15 developing-country researchers attending the XIIIth International Congress for Tropical Medicine and Malaria, held in Bangkok, November 29-December 4, 1992

Makerere University,
Kampala, Uganda
\$6,300

For basic equipment needed by its Institute of Public Health preparatory to developing a field-based public health training program in Uganda

Ministry of Public Health,
Harare, Zimbabwe
\$37,300

Toward the costs of planning the curriculum for a master's degree program in public health in collaboration with the University of Zimbabwe.

Moi University,
Eldoret, Kenya
\$35,000

For development and implementation of a Medical Faculty Practice Program.

National Academy of Sciences
Institute of Medicine,
Washington, D.C.
\$75,000

For use by its Institute of Medicine for development and implementation of new program initiatives in international health

\$25,000

For use by its Institute of Medicine for a Malaria Forum

National Epidemiology Board
of Cameroon,
Yaoundé

[1992 - \$350,000, in addition to remaining funds from prior year appropriations]

To continue support for a national health and family planning research and policy board in Cameroon. (Joint appropriation with Population Sciences, for a total of \$700,000.)

Pan-African Society of Cardiology,
Lagos, Nigeria
\$15,000

Toward the costs of its Congress on Preventive Cardiology in Africa to be held in Yaoundé, Cameroon

Pan-American Health Organization,
Washington, D.C.
\$50,000

Toward the costs of a review of international health agencies.

Partnership for Child Development
[1992 - \$450,000]

To support studies by developing countries on the feasibility and cost-effectiveness of providing children with anthelmintic (anti-worm) and micronutrient chemotherapy via the school system.

Pesticide Use: Environment and Health
[1991 - \$200,000]

To provide the basis for an improved understanding of the agricultural, environmental, and health effects of agricultural pesticide use in developing countries (Joint appropriation with Agricultural Sciences, for a total of \$800,000).

International Potato Center (CIP),
Lima, Peru
\$35,200

For research on the health effects of pesticide use in Ecuadorean potato production (Joint allocation with Agricultural Sciences, for a total of \$49,500.)

Montana State University,
Bozeman, Montana
\$18,920

For research on the health effects of pesticide use in Ecuadorean potato production (Joint allocation with Agricultural Sciences, for a total of \$37,840.)

Foundation-administered project
\$50,000

For costs of a conference, "Measuring the Health and Environmental Effects of Pesticides," held at the Bellagio Study and Conference Center, March 30-April 3, 1992 (Joint allocation with Agricultural Sciences, for a total of \$100,000.)

Student Pugwash USA,
Washington, D.C.
\$20,000

In support of its seventh international conference, entitled "Visions for a Sustainable World. Health Care in Developing Countries," held at Emory University, Atlanta, June 14-20, 1992.

Task Force for Child Survival and Development,
Atlanta, Georgia

[1992 - \$275,000, in addition to remaining funds from prior year appropriations]

To continue its technical assistance to the Ugandan Ministry of Health

\$20,000

To enable developing-country health professionals to attend an international symposium on public health surveillance, "Guiding Solutions to Improving Health and Quality of Life," held April 22-24, 1992, in Atlanta.

Trustees of Health and Hospitals
of the City of Boston, Inc.,
Massachusetts
\$10,000

Toward the costs of a project within the "Healthy Boston" initiative entitled "Transferring Community-Based Approaches to Health and Development: Learning from the Experience in Cali, Colombia.

Tulane University,
New Orleans, Louisiana
\$34,150

For use by its Medical Center toward the costs of curriculum development for the "Schools of Public Health Without Walls" Program in Zimbabwe

\$35,150

For a study on "Curriculum Development: The Experience of the Zaire School of Public Health."

Universidad del Valle,
Cali, Colombia
\$25,000

Toward the cost of updating the medical libraries collection at the Faculty of Health

University of Calabar,
Nigeria
\$46,000

For a research study on the treatment and control of urinary schistosomiasis in children.

University of Zimbabwe,
Harare
\$17,000

Toward the costs of developing a master's degree program in public health in collaboration with the Ministry of Health.

World Bank,
Washington, D.C.
\$38,000

To enable developing-country economists to attend a Bellagio conference, "Health Transition in Developing Countries: Sector Priorities and Reform," held June 22-26, 1992.

Yale University,
New Haven, Connecticut
\$16,750

Toward the costs of a development workshop on human health and the effective utilization of tropical forests in the Amazon river basin of Brazil, held in September 9-11, 1992, at the Evandro Chagas Institute, Belém. (Joint grant with the Global Environment Division, for a total of \$33,500.)

Foundation-administered projects
\$30,000

For administrative expenses for a meeting on indoor air pollution and cooking fuels in developing countries

\$29,000

Toward the costs of the conference, "Giving Voice to Children: Strengthening Advocacy for Child Health and Well-Being," January 12-13, 1993.

PREVENTING DEVELOPING
COUNTRY DISEASES
THROUGH VACCINOLOGY
AND PHARMACOLOGY

Children's Vaccine Initiative
[1992 - \$2,200,000]
To support vaccine research programs and other activities related to the development and distribution of Third-World children's vaccines (Joint appropriation with Population Sciences, for a total of \$2 500,000)

Boston University,
Massachusetts
\$100,000
For use by its school of Public Health in support of the Vaccine Development Program

World Health Organization,
Geneva, Switzerland
\$250,000
Toward the costs of the Initiative's Consultative Group

\$300,000
To continue support for its program for vaccine development (Joint allocation with Population Sciences, for a total of \$600,000)

\$250,000
To continue support for its expanded program on immunization

Health Sciences for the Tropics
[1991 - \$1,700,000 in addition to remaining funds from prior year appropriations]
To strengthen the capacity of developing countries to conduct research on major tropical diseases through North-South and South-South research partnerships

Brown University,
Providence, Rhode Island
\$53,500
For collaborative research with the Walter and Eliza Hall Institute of Medical Research, Australia, and the University of the Philippines on schistosomiasis surveillance and control in the Philippines

Case Western Reserve University,
Cleveland, Ohio
\$178,500
For a continuing research and training project to develop a method of disease

control for schistosomiasis, collaborative with the Ministry of Health and the Institute of Primate Research, Kenya

Center for Genetic Engineering and Biotechnology Investigations (CEINGEBI),
Cuernavaca, Mexico
\$176,548

For a research and training project, collaborative with Stanford University's Division of Geographic Medicine, on acute infectious diarrheas of childhood (With debt swap)

Center for Research and Advanced Studies (CINVESTAV) of the National Polytechnic Institute,
Mexico City, Mexico
\$118,688

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

Christian Medical College Hospital,
Vellore, India
\$85,000

For a research and training project, collaborative with the Geographic Medicine and Infectious Diseases Division of the New England Medical Center, Boston, on the molecular, clinical and epidemiologic aspects of diarrheal diseases in India

Robert W Gwadz, National Institutes of Health,
Bethesda, Maryland
\$58,080

For collaboration with the Parasitology Institute of the University of Rome Italy and the Laboratoire de Parasitologie, Ecole Nationale de Medecine et de Pharmacie, Mali, on a research and training project to develop effective methods of malaria control in Africa

Harvard University
Cambridge, Massachusetts
\$193,200
In continued support of a research and training project on schistosomiasis and filariasis, collaborative between its Department of Tropical Public Health and Shanghai Medical University and the Guizhon Provincial Institute of Parasitic Diseases China

Institut Pasteur,
Lille, France
\$35,400

For a research and training project collaborative with the Molteno Laboratories of Parasitology, University of Cambridge England, and the Kenya Medical Research Institute, to develop a vaccine against schistosomiasis

\$54,000

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

Medical Research Council,
Banjul, The Gambia
\$78,000

For a research and training project collaborative with the Department of Immunology Wenner-Gren Institute, University of Stockholm, and the Department of Community Medicine, Chulalongkorn University, Thailand, to develop a vaccine against malaria

New England Medical Center Hospitals, Inc ,
Boston, Massachusetts
\$85,000

For a research and training project, collaborative with Christian Medical College Hospital Vellore India, on the molecular, clinical, and epidemiologic aspects of diarrheal diseases in India

\$65,000

In support of a meeting of the program's eight North-South partnerships studying diarrheal diseases, held October 5-10, 1992 at the Stanford University School of Medicine

New York University
\$166,320

For use by its Medical Center in collaboration with the New York University School of Medicine and the Escola Paulista de Medicina São Paulo, Brazil, on a research and training project to integrate studies on malaria and Chagas' disease

Rockefeller University,
New York, New York
\$50,000

For a research project on modeling the transmission dynamics and control of

Chagas' disease in Argentina collaborative with the University of Buenos Aires and the National Agency for Chagas' Disease Control Argentina

Stanford University,
California
\$206,050

For a research and training project, collaborative with the Center for Genetic Engineering and Biotechnology Investigations, Cuernavaca, Mexico, on acute infectious diarrheas of childhood

Universidade Federale Do Ceara,
Fortaleza, Brazil
\$96,425

For continued support of a research project collaborative with the University of Virginia's Division of Geographic Medicine, to reduce the morbidity and mortality of enteric diseases in northeastern Brazil

University of California,
Los Angeles
\$138,600

For a research and training project on Chagas' disease collaborative with the Instituto Oswaldo Cruz, Rio de Janeiro, Brazil

University of California,
San Francisco
\$207,900

For a research and training project to analyze the biological and epidemiological factors of amebiasis and giardiasis in Mexico, collaborative with the Center for Research and Advanced Studies (CINVESTAV) of the National Polytechnic Institute, Mexico, and the University of California, Berkeley

\$126,850

For a research and training project, collaborative with Mahdol University, Thailand, and the ASTRA Research Centre India, to develop a malaria drug and examine Plasmodium resistance

University of Cambridge,
England
\$115,450

For a research and training project on development of a vaccine against schistosomiasis being conducted collaboratively by its Molteno Laboratories of Parasitology, the Pasteur Institute Lille, France and the Kenya Medical Research Institute

- University of Edinburgh,
Scotland
\$24,000
For a research and training project on the immunological and epidemiological aspects of malaria, being conducted collaboratively by its Institute of Cell, Animal, and Population Biology, the Department of Parasitology of the University of Colombo, Sri Lanka, and the Institut Pasteur, Paris, France.
- University of Rome, La Sapienza,
Italy
\$116,000
For a research and training project, collaborative between its Institute of Parasitology, the U.S. National Institutes of Health, and the Laboratory of Parasitology, Ecole Nationale de Médecine et de Pharmacie, Mai, to develop effective methods of malaria control in Africa.
- University of Stockholm,
Sweden
\$140,000
For a research and training project to develop a malaria vaccine, being conducted collaboratively by the Department of Immunology at its Wenner-Gren Institute, the Medical Research Council Laboratory in the Gambia, and the Department of Community Medicine, Chulalongkorn University, Thailand.
- University of Uppsala,
Sweden
\$95,200
For continued support of a research and training project, collaborative between its Department of Medical Genetics and the Instituto de Investigaciones Bioquímicas and the Universidad Nacional de Salta, Buenos Aires, Argentina, on the development of a vaccine against *Trypanosoma cruzi*.
- University of Virginia,
Charlottesville
\$185,100
For a research and training project, collaborative between its Division of Geographic Medicine and the Federal University of Ceará Health Center, Fortaleza, Brazil, to reduce the morbidity and mortality of enteric diseases in northeastern Brazil.
- Johns Hopkins University,
Baltimore, Maryland
- \$56,700
In support of the Children's Vaccine Initiative project to improve measles control
- Strengthening Chinese Universities
[1992 - \$10,000]
To test a pilot fellowship program, designed to strengthen Chinese universities for science-based development, that enables young Chinese scientists and engineers who have remained in North America to serve as part-time adjunct professors at three universities in Beijing. (Joint appropriation with the Agricultural Sciences and Population Sciences, for a total of \$350,000.)
- Cornell University,
Ithaca, New York
\$10,000
Toward the costs of a fellowship program designed to strengthen Chinese universities for science-based development by enabling young Chinese scientists and engineers who have remained in North America to serve as part-time adjunct professors at leading universities in China.
- Task Force for Child Survival and Development
[1992 - \$199,200 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 and development of children
- \$30,000
For a research project on respiratory syncytial virus (RSV), aimed at measuring the extent to which human antibody enhances RSV infection in macrophages.
- \$16,000
For an evaluation of the performance of the tetanus toxoid vaccine in developing countries
- University of Dublin,
Ireland
\$30,000
For use by Trinity College for a dengue viral research project.
- Vaccine Production Technology Transfer
- [1992 - \$1,000,000, in addition to remaining funds from prior year appropriations]
To make viral vaccine production a generic and technically accessible process available at moderate cost to developing countries.
- Instituto Nacional de Salud,
Bogota, Colombia
\$110,000
To test the human rabies vaccine produced by VECOL
- VECOL (Empresa Colombiana de Productos Veterinarios S.A.),
Bogota, Colombia
\$90,000
For a human rabies vaccine project.
- Foundation-administered project
\$100,000
For administrative expenses related to making viral vaccine production a generic and technically accessible process available at moderate cost to developing countries.
- Walter Reed Army Institute of Research,
Washington, D.C.
\$19,100
For use by its U.S. Army Medical Component, the Armed Forces Research Institute of Medical Sciences (AFRIMS), in collaboration with the Thai Component, to continue research in Thailand on the hepatitis E virus.
- Paijit Warachit,
Bangkok, Thailand
\$3,810
To enable him to make site visits in the U.S. and discuss regulatory issues related to developing licensing authority for a new dengue vaccine in Thailand.
- FAMILY AND
COMMUNITY-BASED
HEALTH INITIATIVES
- Caravajal Foundation,
Cali, Colombia
\$29,013
Toward the costs of an external evaluation of its Health and Population Program. (Joint grant with Population Sciences, for a total of \$56,050. Also listed under the division's first guide-
- line, Enhancing National Capability for Population-Based Health Care.)
- Family Care International,
New York, New York
\$17,500
To enable participants from developing countries to attend a meeting entitled "Partners for Safe Motherhood," held March 9-11, 1992, in Washington, D.C. (Joint with Population Sciences, for a total of \$35,000.)
- Health Practice in Zimbabwe
[1992 - \$400,000]
To strengthen the public health system at district, provincial, and national levels in Zimbabwe by developing local capacity for training field-oriented public health practitioners, and to explore related activities in Uganda. (Joint appropriation with Population Sciences, for a total of \$500,000.)
- Tulane University Medical Center,
New Orleans, Louisiana
\$12,150
Toward the costs of curriculum development for the "Public Health School Without Walls" Program in Zimbabwe. (Joint allocation with Population Sciences, for a total \$24,300.)
- University of Zimbabwe,
Harare
\$169,650
For start-up costs associated with the initiative.
- \$15,000
For expenses related to advisor site visits to work with the University of Zimbabwe and the Ministry of Public Health in the design of its curriculum for the "Public Health Schools Without Walls" initiative. (Joint allocation with Population Sciences, for a total of \$30,000.)
- Foundation-administered project
\$5,000
For administrative expenses related to the public health research initiative in developing countries entitled, "Public Health Schools Without Walls." (Joint allocation with Population Sciences, for a total of \$10,000.)
- HIV in the Developing World
[1992 - \$750,000, in addition to remaining funds from prior year appropriations]

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

AIDS Support Organization,
Kampala, Uganda
\$37,660

For the first of a two-year study in Kampala aimed at engaging traditional healers in the provision of counseling and basic care for AIDS patients (Joint allocation with Population Sciences, for a total of \$75,320)

Asociacion para la Investigacion de la Salud,
Guadalupe, Costa Rica
\$10,000

For a study of human sexuality in Costa Rica (Joint allocation with Population Sciences, for a total of \$20,000)

Chiang Mai University,
Thailand
\$49,560

For its study of HIV prevalence, behavioral risk factors associated with HIV transmission from women to men, and the prevalence of other sexually-transmitted diseases in two cohorts of male Thai military recruits (Joint allocation with Population Sciences, for a total of \$99,120)

Columbia University,
New York, New York
\$175,000

To help Ugandan investigators continue a long-term cohort study on HIV epidemiology and prevention in the Rakai District (Joint allocation with Population Sciences for a total of \$350,000)

Debt-for-Development Coalition, Inc.,
Washington, D C
\$19,500

In support of its debt-swap project to leverage funding for HIV/AIDS projects in developing countries (Joint allocation with Population Sciences, for a total of \$39,000)

Harvard University,
Cambridge, Massachusetts
\$41,735

To enable its School of Public Health to coordinate trials under way in Ethiopia, Mexico and Thailand of

interventions designed to reduce the transmission of HIV infection and other sexually transmitted diseases by commercial sex workers (Joint allocation with Population Sciences, for a total of \$83,470)

Human Rights Project, Inc.,
Washington, D C
\$5,000

To enable developing-country AIDS researchers to participate in the Congressional Forum on the Economic Implications of the International HIV/AIDS Epidemic, held in Washington in June 1992 (Joint allocation with Population Sciences, for a total of \$10,000)

International Family Health,
London, England
\$46,095

For the coordination of a project designed to support the development of a potential new effort, the HIV/AIDS NGO Support Programme, aimed at increasing international donor assistance to developing-country non-governmental organizations working in the field (Joint allocation with Population Sciences, for a total of \$92,190)

Khon Kaen University,
Thailand
\$18,775

To develop a culturally appropriate strategy for preventing sexually transmitted diseases and AIDS among prostitutes in the city of Khon Kaen (Joint allocation with Population Sciences, for a total of \$37,550)

Ministry of Public Health,
Yaounde, Cameroon
\$12,500

Toward the costs of the VIIth International Conference on AIDS in Africa (Joint allocation with Population Sciences, for a total of \$25,000)

Pan American AIDS Foundation,
Cambridge, Massachusetts
\$64,508

To encourage collaboration between nongovernmental and private-sector institutions in the fight against AIDS in the region (Joint allocation with Population Sciences for a total of \$129,016) (With debt swap)

Population Council,
New York, New York
\$37,185

In support of an AIDS prevention project for adolescents in Had Yai, Thailand to be undertaken in collaboration with Prince of Songkla University (Joint allocation with Population Sciences, for a total of \$74,370)

Program for Appropriate
Technology in Health (PATH),
Seattle, Washington
\$7,404

To provide technical support to the Indonesian agency that will manufacture PATH's HIV dipstick test in that country (Joint allocation with Population Sciences, for a total of \$14,808)

\$25,100

Toward the costs of publishing and distributing its newsletter *Global Access to STD Diagnostics* (Joint allocation with Population Sciences, for a total of \$50,200)

Thai Red Cross Society,
Bangkok, Thailand
\$40,975

To participate in a multi-country trial of interventions designed to reduce the transmission of sexually transmitted diseases including HIV, by commercial sex workers (Joint allocation with Population Sciences, for a total of \$81,950)

University of California,
San Francisco
\$150,000

For a collaborative study with Makerere University, Uganda, to identify factors that intensify heterosexual transmission of HIV (Joint allocation with Health Sciences, for a total of \$300,000)

University of Dar es Salaam,
Tanzania
\$780

For costs associated with the study conducted by the Muhimbili Medical Centre on co-factors for HIV-1 infection among women attending selected family planning clinics in Dar es Salaam (Joint allocation with Population Sciences, for a total of \$1,560)

Foundation-administered projects
\$2,500

For costs of consultants and evaluators (Joint allocation with Population Sciences, for a total of \$5,000)

\$50,000

For administrative expenses related to improving nongovernmental responses to HIV/AIDS in developing countries (Joint allocation with Population Sciences for a total of \$100,000)

\$7,500

For costs of a meeting on HIV vaccines held on December 10-11, 1992 (Joint allocation with Population Sciences, for a total of \$15,000)

International Women's
Health Coalition,
New York, New York
[1992 - \$150,000]

To strengthen the role of women's organizations in Nigeria and Cameroon as advocates for reproductive health (Joint appropriation with Population Sciences for a total of \$300,000)

Macro International, Inc.,
Columbia, Maryland
\$50,000

Toward the costs of the small-grants program of the Demographic and Health Surveys program (Joint grant with Population Sciences, for a total of \$100,000)

Marine Biological Laboratory,
Woods Hole, Massachusetts
\$4,870

For research on an anti-toxin produced in the ovary of a marine mollusk which may be useful in the treatment of septic shock and cholera (Joint allocation with Population Sciences, for a total of \$9,740)

National Research and Policy
Boards

[1990 - \$750,000, in addition to remaining funds from prior year appropriations]
To continue support for the national health and family planning boards in Thailand, Mexico and Cameroon (Joint appropriation with Population Sciences for total of \$1,400,000)

Mexican Health Foundation,
Mexico City, Mexico
\$1,038,520

For use by the Advisory Board in Epidemiology in funding research projects and holding periodic meetings. (With debt swap.)

Population Council,
New York, New York
\$4,445

Toward travel and related expenses of developing-country professionals attending a seminar on critical issues in reproductive health and population, held June 29, 1992, in New York. (Joint grant with Population Sciences, for a total of \$8,890.)

Strengthening Community-Based Prevention of Dengue

[1992 - \$600,000, in addition to remaining funds from prior year appropriations]

To continue support for community-based approaches to integrated control of the urban mosquito vector of dengue and also yellow fever.

Johns Hopkins University,
Baltimore, Maryland
\$175,000

To continue support for community-based approaches to integrated control of *Aedes aegypti*, the urban mosquito vector of dengue and yellow fever

Ministry of Public Health
El Progreso, Honduras
\$200,000

To continue funding of a community-based *Aedes aegypti* control project in Honduras

Tulane University,
New Orleans, Louisiana
\$49,670

For a pilot project on the use of the natural predator, cyclops, to control the mosquito.

Foundation-administered project
\$50,000

For administrative costs.

University of California, Davis
\$43,100

For a study in collaboration with the University of Malawi and Ahmadu Bello University, Nigeria, on cultural and behavioral risk factors for sexually transmitted diseases among sub-Saharan African women. (Joint allocation with Population Sciences, for a total of \$86,200.)

University of North Carolina at Chapel Hill
\$50,000

Toward the costs of a collaborative project with the Indian Institute of Health Management Research to establish, in India, a master's degree program in public health administration that will be open to mid-career health officers from South Asian countries. (Joint grant with Population Sciences, for a total of \$100,000)

Women for Women's Health
[1992 - \$337,500, in addition to remaining funds from prior year appropriations]

To help Malawi and Uganda develop the capacity for training increased numbers of nurse-midwives and upgrading their skills and status as a way of bringing about sustained reduction in maternal mortality and morbidity (Joint appropriation with Population Sciences, for a total of \$675,000.)

Case Western Reserve University,
Cleveland, Ohio
\$125,000

In support of efforts by its School of Nursing to help Uganda develop capacity for training increased numbers of nurse-midwives (Joint allocation with Population Sciences, for a total of \$250,000)

Foundation-administered project
\$12,500

For administrative expenses associated with the Foundation's project to help Malawi and Uganda develop capacity for training increased numbers of nurse-midwives (Joint allocation with Population Sciences, for a total of \$25,000.)

NEW EXPLORATIONS -
HEALTH AND THE
ENVIRONMENT

New Explorations in Health and Environment
[1992 - \$400,000]

To explore interactions between health and the environment in the Amazon region of Brazil.

FELLOWSHIPS

Biotechnology Career Fellowships

[1992 - \$400,000, in addition to remaining funds from prior year appropriations]

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

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

To strengthen the research capacity of its department of biomedical research

Catholic University of Chile,
Santiago
\$33,600

For a study of sperm penetration through egg envelopes

Catholic University of Valparaiso,
Chile
\$235.61

For a study of metabolic and membrane transport strategies for male contraception

Children's Vaccine Initiative
[1992 - \$300,000]

To support vaccine research programs and other activities related to the Children's Vaccine initiative. (Joint appropriation with Health Sciences, for a total of \$1,200,000.)

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

World Health Organization,
Geneva, Switzerland
\$250,000

Toward the costs of the Initiative's Consultative Group.

Chinese Academy of Sciences,
Beijing
\$21,000

For use by the Zhejiang Academy of Medical Sciences for a study of the mechanisms underlying the sperm acrosome reaction triggered by natural agonists.

Columbia University,
New York, New York
\$91,670

For use by its College of Physicians and Surgeons for a study of the role of the seminiferous growth factor in male gonadal development.

Concept Foundation,
Bangkok, Thailand
\$74,510

For preparatory work (1) to register the injectable contraceptive Cyclofem in countries of Latin America other than Mexico and (2) to identify potential distributors of the project.

Cornell University,
Ithaca, New York
\$56,250
*For the collaborative program between
its Medical College and the Institute of
Materia Medica and Family Planning
Research, Zhejiang Academy of
Medicine, China, in the clinical phar-
macology of contraception*

Hastings Center,
Briarcliff Manor, New York
\$42,680
*Toward the costs of a study involving
(1) discussion of the ways in which
public policy might be influenced by
the availability of long term contra-
ception and (2) the formulation of
proposed ethical criteria against which
uses might be judged (Joint grant
from Arts and Humanities for a
total of \$85,360)*

Jiangsu Province Science and
Technology Exchange Centre with
Foreign Countries,
Nanjing, China
\$5,000
*Toward the costs of the First Asian
and Oceanic Congress of Andrology,
held in November 1992 in Nanjing*

National Museums of Kenya,
Nairobi
\$39,000
*In support of the reproductive
biology program in its Institute
of Primate Research*

Organização Internacional de
Pesquisa em Saúd Reprodutiva,
Salvador, Brazil
[1992 - \$1,800,000]
*For its program of South-to-South
cooperation to develop new
contraceptive methods and improve
reproductive health*

Program for Appropriate
Technology in Health (PATH),
Seattle, Washington
\$50,000
*To prepare a paper on the role of
industry in contraceptive research
and development*

Research Support for Population
Scientists in Reproductive Biology

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

Banaras Hindu University,
Varanasi, India
\$29,150
*For a study on the role played by the
phosphorylation of the androgen receptor
in the male reproductive system*

Chulalongkorn University,
Bangkok, Thailand
\$24,980
*For use by its Faculty of Medicine in
developing a model for biopsy of
preimplantation mouse embryos*

National Autonomous University
of Mexico,
Mexico City, Mexico
\$25,000
*For a study, to be conducted by its
Institute of Biomedical Research, on
ovarian differentiation in mammals*

University of Chile,
Santiago
\$15,720
*For a project on the neural contribu-
tion to the etiology of polycystic
ovarian syndrome*

University of Ibadan,
Nigeria
\$36,500
*For a study at its college of medicine
on the effects of natural progesterone
administered as a long-acting
injectable contraceptive on milk
composition in lactating women*

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

Memorial Sloan-Kettering
Cancer Center,
New York, New York
\$63,990

*For a study of gossypol's effects on
the semen of HIV-infected men*

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

Organização Internacional de
Pesquisa em Saúd Reprodutiva,
Salvador, Brazil
\$700,000
*For its program of South-to-
South cooperation to develop new
contraceptive methods and improve
reproductive health*

Programa Latinoamericano de
Capacitación e Investigación en
Reproducción Humana (PLACIRH),
Mexico City, Mexico
\$500,000
*For its research and training program
for Latin American scientists interested
in the field of human reproduction*

Strengthening Chinese Universities
[1992 - \$10,000]
*To test a pilot fellowship program
designed to strengthen Chinese univer-
sities for science-based development, that
enables young Chinese scientists and
engineers who have remained in North
America to serve as part-time adjunct
professors at three universities in
Beijing (Joint appropriation with the
Agricultural Sciences and Population
Sciences, for a total of \$350,000)*

Cornell University,
Ithaca, New York
\$10,000
*Toward the costs of a fellowship
program designed to strengthen
Chinese universities for science-based
development by enabling young
Chinese scientists and engineers who
have remained in North America to
serve as part-time adjunct professors
at leading universities in China*

University of Lagos, Nigeria
\$1,047
*For a study of the effects of chloro-
quine, an antimalarial drug, on
spermatogenesis and fertility in rats*

University of Pennsylvania,
Philadelphia
\$9,600
*For a study being conducted in its
School of Medicine on placental
morphogenesis*

World Health Organization,
Geneva, Switzerland
[1992 - \$500,000]
*To support a WHO project that
applies the South-to-South sharing
principle in strengthening less-
advanced center's capacity for social
epidemiological, clinical, and biomed-
ical research in reproductive health*

\$12,047
*Toward the costs of a project of the
Special Programme of Research
Development and Research Training
in Human Reproduction to strengthen
research capacities through collabora-
tion among developing countries*

Foundation-administered project
\$2,500
*For contribution by the Foundation
toward the costs of a conference on
research and development opportuni-
ties in contraception, held in
Washington, D C , in February 1992*

IMPROVING POPULATION POLICILS AND PROGRAMS

Carlos Brambila-Paz and Sergio
Camposortega, Mexico City,
Mexico
and Dennis P Hogan,
Pennsylvania State University,
University Park
\$62,950
*For a study analyzing the role
played by women's status in the
decline of fertility in Mexico*

Mead Cain, Population
Council, New York, New York
and Nasra Shah, Family Planning
Association of Pakistan, Lahore
\$59,970
*For the study of family, fertility,
and women's status in Pakistan*

Center for Population Options,
Washington, D C
\$17,000

Toward the costs of a conference on adolescent health in Africa, held in Kenya in collaboration with the Centre for the Study of Adolescence, Nairobi.

Ansley J. Coale, Princeton University
\$6,820

To enable him to participate in the international seminar on China's 1990 census that the State Statistical Bureau held in Beijing in October 1992.

Colorado Prevention Center, Denver
\$42,500

For an analysis of how population issues were addressed during planning for the Earth Summit conference held in Rio de Janeiro in June 1992.

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

To promote field studies and operations research in developing countries as their family planning programs introduce new contraceptive methods.

Kenya Medical Research Institute, Nairobi
\$145,000

For a contraceptive technology introduction and surveillance program in Kenya's Machakos District.

Peking University, Beijing, China
\$20,300

To enable its Institute of Population Research to work with the Chinese State Family Planning Commission on a project designed to demonstrate the advantages of an enhanced rural family planning system that integrates improved methods of contraception with better training local family planning personnel.

State Family Planning Commission, Beijing, China
\$311,500

To enable the Commission to demonstrate the advantages of an enhanced rural family planning system that integrates improved methods of contraception with better training of local family planning personnel.

University of Pennsylvania, Philadelphia
\$45,210

To enable its Population Studies Cen-

ter to provide technical assistance to the Chinese State Family Planning Commission as the latter undertakes a field experiment in family planning in rural China.

Rene Dubos Center for Human Environments, Inc., New York, New York
\$75,000

Towards the cost of a forum on population, environment, and development to be held in September 1993

Family Planning Evaluation Program

[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 of that policy personnel and program managers need to consider for strengthening national population programs.

University of North Carolina at Chapel Hill
\$25,000

For a collaborative project with the Vietnamese National Committee for Population and Family Planning to develop family planning program evaluation activities in Vietnam.

Federal University of Minas Gerais, Belo Horizonte, Brazil
[1992-\$300,000, in addition to remaining funds from prior year appropriations]
To strengthen the graduate training and research program on population and development at its Center for Regional Planning and Development (CEDEPLAR).

Harvard University, Cambridge, Massachusetts
\$100,000

For a study of birth interval length dynamics in a rural West African population as primary health care and contraception become available.

Independent Commission on Population and Quality of Human Life, Paris, France
[1992-\$500,000]

Toward the costs of reviewing present international population policies and

program efforts, developing new ideas for addressing global population problems, and communicating the findings and recommendations directly to the 1994 United Nations International Conference on Population and development, as well as sharing them with governments, nongovernmental organizations, and private-sector agencies.

International Health and Biomedicine, Ltd., East Sussex, England
\$50,000

In support of a media project on relationships between rapid population growth, status of women, and the environment

International Planned Parenthood Federation, London, England
\$25,000

To enable developing-country experts to attend a workshop on effective family planning programs.

\$50,000

Toward the costs of a family planning congress held in India during the month of October, 1992.

International Union for the Scientific Study of Population, Liège, Belgium
\$10,000

Toward the costs of a conference, held in Veracruz, Mexico, in May 1992, on the peopling of the Americas.

\$25,000

To enable participants from Latin American countries to attend a seminar on the demographic consequences to structural adjustment of the region's economies, held in Belo Horizonte, Brazil, September 29-October 2, 1992

Johns Hopkins University, Baltimore, Maryland
\$94,270

To enable its School of Hygiene and Public Health to plan a research project concerning population growth and the environment in the Himalayas.

\$30,000

In support of its new William H. Draper, Jr. Fellowship Program, established to enable developing-

country scholars to receive training in the effective use of modern communications for population and family planning programs.

National Academy of Sciences, Washington, D.C.
\$30,340

Toward the costs of a meeting on population growth and land use in developing countries, to be organized by its Committee on Population and its Commission on Geosciences, Environment and Resources

National Epidemiology Board of Cameroon, Yaoundé

[1992-\$350,000, in addition to remaining funds from prior year appropriations]

To continue support for a national health and family planning research and policy board in Cameroon. (Joint appropriation with Health Sciences, for a total of \$700,000.)

Overseas Development Council, Washington, D.C.
\$100,000

Toward the cost of a study entitled "Promoting Private Enterprise: The Challenge for the Multilateral Development Banks"

Peking University, Beijing, China
\$40,000

To enable the Institute of Sociology to study how migration and economic policies have affected the environment of the grasslands of Inner Mongolia.

Population Communications International, New York, New York
\$76,700

For a study, collaborative with Marketing and Research Group Pvt., Ltd., Bombay, India, on the impact of a television series broadcast in India on public attitudes toward the status of women and the use of family planning services.

Population Council, New York, New York
\$98,790

In support of its collaboration with

Vietnamese governmental agencies in a program of operations research on how best to improve family planning services in Vietnam.

\$72,840

To enable its research division to analyze the effects of population growth on a variety of environmental issues.

Population Crisis Committee,
Washington, D.C.

\$100,000

For its program of research, analysis, production, and distribution of reports on population issues.

The Population Sciences in
Sub-Saharan Africa

[1991-\$600,000, in addition to remaining funds from prior year appropriations]

To continue to strengthen the capacity of African institutions and improve understanding of population trends in sub-Saharan Africa

Addis Ababa University, Ethiopia
\$59,840

For a study of women's status and roles as factors affecting fertility in Ethiopia.

Commonwealth Regional Health
Community Secretariat for East,
Central, and Southern Africa,
Arusha, Tanzania
\$43,020

To strengthen its coordination of the reproductive health research program.

Institute of Agricultural Research,
Freetown, Sierra Leone
\$59,900

For a study of women's time allocation to household and economic activities and its effects on fertility and household nutrition.

International Union for the
Scientific Study of Population,
Liège, Belgium
\$25,000

Toward the costs of a training workshop for French-speaking demographers on analyzing census data collected in francophone Africa in 1990 and 1991, held in Liège in November 1992.

Mahidol University,
Bangkok, Thailand
\$82,500

To enable its Institute for Population

and Social Research to enroll four qualified African scholars in the master's degree program.

Makerere University,
Kampala, Uganda
\$150,000

To enable the Department of Population Studies to engage a senior level African from outside of Uganda as a visiting professor for a three-year period.

\$89,000

To strengthen its population research and training program.

National Museums of Kenya,
Nairobi
\$20,000

For a conference organized by its Institute of Primate Research on advances in reproductive research in man and animals.

A. Okore, A. Okorafor, P. Nwakeze,
University of Nigeria, Nsukka, and
D. Gurak, Cornell University,
Ithaca, New York
\$5,000

For a study of the health-seeking behavior of mothers and child survival in Anambra State, Nigeria.

Pan African Association of
Anthropologists,
Yaoundé, Cameroon
\$15,000

Toward the costs of a conference on population and family issues, held in Yaoundé in August 1992.

Potsdam College of the State
University of New York
\$52,150

For a study, collaborative with the University of Ghana's Regional Institute for Population Studies, of the impact of women's autonomy on contraception and fertility behavior in Ghana.

Mary Benedicta Tumwesigye,
Kampala, Uganda
\$8,000

To enable her to study demography at the London School of Economics and Political Science.

Union for African Population
Studies,
Dakar, Senegal
\$200,450

For a small grants program for research on population and development issues.

University of Zimbabwe,
Harare
\$175,000

In support of its population studies program.

Glenn Webb, University of
Maiduguri, Nigeria
\$18,270

For a study of demographic innovation in an urban Ibo community in Nigeria.

Research on the Relationship
between the Status of Women in
Developing Countries and Fertility
[1991 - \$300,000, in addition
to remaining funds from prior
year appropriations]
Continue support for research on
women's status and fertility in
developing countries.

Center for Cultural and Technical
Interchange between East and West,
Inc. (East-West Center), Honolulu,
Hawaii
\$188,940

For a comparative study of
women's status and fertility in
five Asian countries.

\$150,000

For the Pakistan portion of the
comparative study of women's status
and fertility in five Asian countries.

Demographic Research and
Development Foundation, Inc.
Quezon City, Philippines
\$153,310

For the Philippine portion of a
comparative study of women's status
and fertility in five Asian countries.

JSI Research and Training
Institute, Inc.,
Boston, Massachusetts
\$60,000

For a study, collaborative with the
Development Research Centre,
Dhaka, Bangladesh, on rural credit,
empowerment of women, and family
planning in Bangladesh

Anju Malhotra, University of
Maryland, Amy Tsui, University
of North Carolina, and S. Victor
de Silva, Family Planning
Association of Sri Lanka
\$67,400

For a study of gender, life course,
and family formation among young
Sri Lankan women.

Ricardo Paes de Barros and Lauro
Ramos, Instituto de Pesquisa
Econômica e Aplicada (IPEA),
Rio de Janeiro, and Eleonora
Santos, University of Minas Gerais,
Belo Horizonte, Brazil
\$60,180

For a study of how improvements in
women's status and the decline in
fertility have affected the development
of children in Brazil.

Mizanur Rahman, International
Centre for Diarrhoeal Disease
Research,
Dhaka, Bangladesh, and Julie
Da Vanzo, Rand Corporation,
Santa Monica, California
\$84,890

For a study of the impact of the
Grameen Bank on women's status
and fertility in Bangladesh.

Research Support for Population
Scientists in Reproductive Biology
and Policy Studies
Returning to Developing Countries
(Other grants from this appropriation
are listed under the division's first
guideline, Developing Technology
for Fertility Regulation.)

Shanghai Academy of
Social Sciences,
China
\$25,000

For a study of how the old-age
security pension systems established
in some rural areas of China have
affected fertility rates.

Tata Energy Research Institute,
New Delhi, India
\$60,500

For a workshop on population and
national resources to be held in New
Delhi early in 1993

Union of Concerned Scientists,
Cambridge, Massachusetts
\$64,190

For a workshop on the effects of
population growth on global resources,
held in March 1993.

University of Pennsylvania,
Philadelphia
\$57,930

In support of the African demography
training and research program at its
Population Studies Center.

Susan Cotts Watkins, University of Pennsylvania, Philadelphia
\$20,090
For a study of how changes in values and the diffusion of new ideas affect the demographic transition.

FAMILY AND
COMMUNITY-BASED
HEALTH INITIATIVES

Caravajal Foundation, Cali, Colombia
\$28,025
Toward the costs of an external evaluation of its Health and Population Program. (Joint grant from Health Sciences, for a total of \$56,050)

Center for Population Options, Washington, D.C.
\$10,720
To enable its International Center on Adolescent Fertility to prepare a report on its experience in sub-Saharan Africa, South Asia, and the Middle East and North Africa.

Center for Reproductive Law and Policy, New York, New York
\$100,000
For its international program which will provide information on reproductive health rights to lawyers and advocacy groups.

Centre for Development and Population Activities, Washington, D.C.
\$4,500
For an assessment of its experience with four programs which deliver reproductive health and other services to adolescents.

Columbia University, New York, New York
\$60,000
For use by its Center for Population and Family Health for a project to build a theoretical and practical basis for the elaboration of reproductive rights in international law and policy.

Family Care International, New York, New York

\$17,500
To enable participants from developing countries to attend a meeting entitled "Partners for Safe Motherhood," held March 9-11, 1992, in Washington, D.C. (Joint grant with Health Sciences, for a total of \$35,000.)

INCLIN, Inc., Philadelphia, Pennsylvania
\$15,430
In support of its reproductive health working group.

\$18,380
For a workshop on issues and methodology in reproductive health, to be held in Cairo.

Health Practice in Zimbabwe [1992 - \$100,000]
To strengthen the public health system at district, provincial, and national levels in Zimbabwe by developing local capacity for training field-oriented public health practitioners, and to explore related activities in Uganda (Joint appropriation with Health Sciences, for a total of \$500,000.)

Tulane University Medical Center, New Orleans, Louisiana
\$12,150
Toward the costs of curriculum development for the "Public Health School Without Walls" Program in Zimbabwe. (Joint allocation with Health Sciences, for a total of \$24,300.)

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

Foundation-administered project
\$5,000
For administrative expenses related to the public health research initiative in developing countries entitled, "Public Health Schools Without Walls." (Joint allocation with Health Sciences, for a total of \$10,000.)

HIV in the Developing World [1992 - \$750,000, in addition

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

AIDS Support Organization, Kampala, Uganda
\$37,660
For the first year of a two-year study in Kampala aimed at engaging traditional healers in the provision of counseling and basic care for AIDS patients. (Joint allocation with Health Sciences, for a total of \$75,320.)

Asociación para la Investigación de la Salud, Guadalupe, Costa Rica
\$10,000
For a study of human sexuality in Costa Rica. (Joint allocation with Health Sciences, for a total of \$20,000.)

Chiang Mai University, Thailand
\$49,560
For its study of HIV prevalence, behavioral risk factors associated with HIV transmission from women to men, and the prevalence of other sexually-transmitted diseases in two cohorts of male Thai military recruits. (Joint allocation with Health Sciences, for a total of \$99,120.)

Columbia University, New York, New York
\$175,500
To help Ugandan investigators continue a long-term cohort study on HIV epidemiology and prevention in the Rakai District. (Joint allocation with Health Sciences, for a total of \$350,000.)

Debt-for-Development Coalition, Inc., Washington, D.C.
\$19,500
In support of its debt-swap project to leverage funding for HIV/AIDS projects in developing countries. (Joint allocation with Health Sciences, for a total of \$39,000.)

Harvard University, Cambridge, Massachusetts
\$41,735
To enable its School of Public Health to coordinate trials under way in Ethiopia, Mexico, and Thailand of

interventions designed to reduce the transmission of HIV infection and other sexually transmitted diseases by commercial sex workers. (Joint allocation with Health Sciences, for a total of \$83,470.)

Human Rights Project, Inc., Washington, D.C.
\$5,000
To enable developing-country AIDS researchers to participate in the Congressional Forum on the Economic Implications of the International HIV/AIDS Epidemic, held in Washington in June 1992. (Joint allocation with Health Sciences, for a total of \$10,000.)

International Family Health, London, England
\$46,095
For the coordination of a project designed to support the development of a potential new effort, the HIV/AIDS NGO Support Programme, aimed at increasing international donor assistance to developing-country non-governmental organizations working in the field. (Joint allocation with Health Sciences, for a total of \$92,190.)

Khon Kaen University, Thailand
\$18,775
To develop a culturally appropriate strategy for preventing sexually transmitted diseases and AIDS among prostitutes in the city of Khon Kaen. (Joint allocation with Health Sciences, for a total of \$37,550.)

Ministry of Public Health, Yaoundé, Cameroon
\$12,500
Toward the costs of the VIIth International Conference on AIDS in Africa. (Joint allocation with Health Sciences, for a total of \$25,000.)

Pan American AIDS Foundation, Cambridge, Massachusetts
\$64,508
To encourage collaboration between nongovernmental and private-sector institutions in the fight against AIDS in the region. (Joint allocation with Health Sciences, for a total of \$129,016.) (With debt swap.)

Population Council, New York, New York
\$37,185

In support of an AIDS prevention project for adolescents in Had Yai, Thailand, to be undertaken in collaboration with Prince Of Songkla University. (Joint allocation with Health Sciences, for a total of \$74,370.)

Program for Appropriate Technology in Health (PATH), Seattle, Washington \$7,404

To provide technical support to the Indonesian agency that will manufacture PATH's HIV dipstick test in that country (Joint allocation with Health Sciences, for a total of \$14,808.)

\$25,100
For the publication and dissemination of a newsletter entitled Global Access to STD Diagnostics. (Joint allocation with Health Sciences, for a total of \$50,200.)

Thai Red Cross Society, Bangkok, Thailand \$40,975
To participate in a multi-country trial of interventions designed to reduce the transmission of sexually transmitted diseases, including HIV, by commercial sex workers. (Joint allocation with Health Sciences, for a total of \$81,950.)

University of California, San Francisco \$150,000
For a collaborative study with Makerere University, Uganda, to identify factors that intensify heterosexual transmission of HIV. (Joint allocation with Health Sciences, for a total of \$300,000.)

University of Dar es Salaam, Tanzania \$780
For costs associated with the study conducted by the Muhimbili Medical Centre on co-factors for HIV-1 infection among women attending selected family planning clinics in Dar es Salaam. (Joint allocation with Health Sciences, for a total of \$1,560.)

Foundation-administered projects \$2,500
For costs of consultants and evaluators. (Joint allocation with Health Sciences, for a total of \$5,000.)

\$7,500
For the costs of a meeting on HIV vaccines, held December 10-11, 1992. (Joint allocation with Health Sciences, for a total of \$15,000.)

\$50,000
For administrative expenses related to improving nongovernmental responses to HIV/AIDS in developing countries. (Joint allocation with Health Sciences, for a total of \$100,000.)

International Women's Health Coalition, New York, New York [1992 - \$150,000]
To strengthen the role of women's organizations in Nigeria and Cameroon as advocates for reproductive health. (Joint appropriation with Health Sciences, for a total of \$300,000.)

JSI Research & Training Institute, Inc., Boston, Massachusetts \$35,000
For use by its Family Planning Private Sector Programme in Nairobi for an internship program enabling Kenyan graduates in population studies and related fields to gain experience in program management and implementation

Kenya Medical Research Institute, Nairobi \$9,600
For a study of the effects of oral gossypol on HIV infection in men.

Macro International, Inc., Columbia, Maryland [1992 - \$304,250]
To continue support for the global Safe Motherhood Initiative by enabling the staff of the Institute for Resource Development's Demographic and Health Surveys program and the Philippine Government to develop and test a prototype questionnaire to collect data on maternal morbidity and mortality issues.

\$50,000
Toward the costs of the small-grants program of the Demographic and Health Surveys program. (Joint grant with Health Sciences, for a total of \$100,000.)

Marine Biological Laboratory, Woods Hole, Massachusetts \$4,870
For research on an anti-toxin produced in the ovary of a marine mollusk which may be useful in the treatment of septic shock and cholera. (Joint grant with Health Sciences, for a total of \$9,740.)

National Institute of Allergy and Infectious Diseases, Bethesda, Maryland \$69,500
For a workshop and a monograph on sexually-transmitted diseases and adolescents.

Pathfinder International, Watertown, Massachusetts \$9,900
For preparation of a report on past work and experience in adolescent reproductive health.

Population Council, New York, New York \$4,445
Toward travel and related expenses of developing-country professionals attending a seminar in critical issues in reproductive health and population, held June 29, 1992, in New York. (Joint grant with Health Sciences, for a total of \$8,890.)

University of California, Davis \$43,100
Toward the costs of a study, collaborative with the University of Malawi and Ahmadu Bello University, Nigeria, on cultural and behavioral risk factors for sexually transmitted diseases among sub-Saharan African women. (Joint grant with Health Sciences, for a total of \$86,200.)

University of North Carolina at Chapel Hill \$50,000
Toward the costs of a collaborative project with the Indian Institute of Health Management Research to establish, in India, a master's degree program in public health administration that will be open to mid-career health officers from South Asian countries. (Joint grant with Health Sciences, for a total of \$100,000.)

Women for Women's Health [1992 - \$337,500, in addition to remaining funds from prior year appropriations]
To help Malawi and Uganda develop the capacity for training increased numbers of nurse-midwives and upgrading their skills and status as a way of bringing about sustained reduction in maternal mortality and morbidity. (Joint appropriation with Health Sciences, for a total of \$675,000.)

Case Western Reserve University, Cleveland, Ohio \$125,000
In support of efforts by its School of Nursing to help Uganda develop capacity for training increased numbers of nurse-midwives. (Joint allocation with Health Sciences, for a total of \$250,000.)

Foundation-administered project \$12,500
For administrative expenses associated with the Foundation's project to help Malawi and Uganda develop capacity for training increased numbers of nurse-midwives. (Joint allocation with Health Sciences, for a total of \$25,000.)

World Health Organization (WHO), Geneva, Switzerland \$15,000
For a meeting held in Dakar, Senegal, by its Adolescent Health Program to discuss the findings and implications of a narrative research project on adolescent sexual experience in Africa.

FELLOWSHIPS

Biotechnology Career Fellowships [1992 - \$300,000, in addition to remaining funds from prior year appropriations]
To assist excellent young scientists based in the third world to become leaders in the development and application of biotechnology that offers promise for improving the living conditions of poor people. (Jointly funded with Agricultural Sciences and Health Sciences, for a total of \$1,140,000.)

Global Environment Grants

The global environmental program supports work promoting the skills, attitudes, relationships, and institutions necessary for environmentally sound international development. Science-focused activities within this new initiative are carried out through the agricultural, health, and population sciences divisions.

Appropriate Technology
International,
Washington, D.C.
\$78,750

For the final design of a project in Gujarat State, India, that will manufacture and distribute feed supplements which promote more efficient digestion by ruminant animals and hence reduce their emission of the greenhouse gas, methane.

from cooking with animal dung and crop residues and develop an international resource base for such fuels.

Commonwealth Science Council,
London, England
\$99,500
Toward the costs of a program on the environmental, social and economic status of natural resource management in southern Africa.

Asia Network for Small Scale
Agricultural Biotechnologies
(ANSAB),
Kathmandu, Nepal
\$98,650

For a feasibility study on commercial micropropagation of the kapok tree for land reclamation and small farmer benefit in Java.

\$100,000
Toward the costs of the Biomass 93 Conference, held in November 1993.

Consultative Group on Biological
Diversity,
New York, New York
\$40,000
Toward its 1992-1993 program activities.

Bellagio Series on the Environment
{1989 - \$525,000}
To fund a special series of ten Bellagio conferences on the environment.

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

Tata Energy Research Institute,
New Delhi, India
\$20,000

Toward the costs of an international workshop, held at Bellagio April 20-24, 1992, to review preliminary findings from a collaborative project concerning Asia's and Brazil's contributions to greenhouse gas emissions and policy recommendations for reducing these.

Commonwealth Science Council,
London, England
\$22,900
Toward the costs of a planning meeting for a Caribbean energy efficiency initiative, held in Kingston, Jamaica, October 8-9, 1992.

Foundation-administered project
\$2,810
Toward administrative expenses of the Bellagio Series on the Environment

Conservation Law Foundation,
Boston, Massachusetts
\$190,000
Toward the development and implementation of an energy efficiency program in Jamaica.

Biomass Users Network, Inc. (BUN),
Washington, D.C.
\$99,750

Toward the costs of a project to identify potential alternative biomass fuels to reduce the negative health impacts

\$100,000
To continue assistance with the electrical energy efficiency project in Jamaica,

and to participate in a feasibility study for a similar project in Zimbabwe.

\$61,950
For its continuing participation in the development and implementation of an electrical energy efficiency program in Jamaica

International Energy Initiative,
New York, New York
\$46,240
To participate in a feasibility study for an electrical energy efficiency project in Zimbabwe.

\$200,050
For core support.
New Gate Ventures,
New York, New York
\$15,500
For a feasibility study on the commercial viability of producing energy efficient windows in the Ukraine.

Russian Academy of Sciences,
Moscow
\$25,000
For use by its Scientific Association IVTAN to support the planning stage of an energy information agency for the Commonwealth of Independent States.

Energy Foundation,
San Francisco, California
{1992 - \$600,000, in addition to remaining funds from prior appropriations}
To support its program on U.S. energy efficiency and renewable energy sources

Energy Initiatives
{1992 - \$750,000}
To assist developing countries in identifying and acquiring environmentally superior energy technologies.

Cooperativa de Produtores de Cana,
Acucar e Alcool do Estado de São
Paulo, Ltda. (COPERSUCAR),
\$37,820
For use by its Centro de Tecnologia Copersucar for a study to evaluate sugar cane bagasse and trash as fuel for advanced gas turbine energy generation.

Council on Renewable Energy
Education,
Washington, D.C.
\$99,500

In support of studies on renewable energy technology by its project, the International Fund for Renewable Energy and Energy Efficiency.

Environmental Enterprises
Assistance Fund,
Arlington, Virginia
\$240,350
Toward the costs of phase two of a pilot project in Brazil to integrate advanced gas turbines with biomass fuels.

Environmental Protection
Commission of Yunnan,
China
\$10,000
Toward support of a supplemental study for the China biomass-to-electricity project in Yunnan Province.

Princeton University,
New Jersey
\$100,000
For use by its Center for Energy and Environmental Studies in (1) analyses of advanced energy supply technologies for sustainable development and (2) outreach efforts in the developing world concerning these technologies.

Russian Academy of Sciences,
Moscow
\$25,000
For use by its Scientific Association IVTAN for a study on the use of biomass fuels in the magnetohydrodynamic (MHD) method of energy conversion.

University of Tennessee,
Knoxville
\$78,440
To enable its Energy, Environment, and Resources Center to assist with the development of a biomass-to-electricity project in Yunnan Province and an integrated resource planning approach to energy production in Hainan Province, China.

Foundation-administered project
For administrative costs associated with consulting services on advanced membrane technologies for biomass conversion.

Environmental and Energy Study
Institute (EESI),
Washington, D.C.
\$20,000
For general support of its 1993 program activities

Food and Agriculture Organization of the United Nations (FAO), Rome, Italy
\$70,000
Toward support of its International Symposium on Jute and Environment, to be held in the Netherlands in June 1993

INFORM, Inc., New York, New York
\$15,000
For a conference on strategies for improving management of toxic wastes in Mexico so as to prevent pollution from these sources, held in Mexico City, Mexico, March 3-4, 1992.

InterAction: American Council for Voluntary International Action, Inc., Washington, D.C.
\$5,000
Toward the participation of Latin American delegates attending the 1992 Inter Action forum. "Accomplishing Our Mission: Principles of Effective Action," held April 27-29, 1992.

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

International Institute of Rural Reconstruction, New York, New York
\$5,000
Toward the costs of developing and conducting an international course on biogas technologies for small farms

International Ocean Institute, Valletta, Malta
\$10,000
Toward the costs of its conference on international ocean management and the sustainable management of other global resources, held in Malta, November 1992.

Leadership for Environment and Development (LEAD), [1992 - \$3,300,000, in addition to remaining funds from prior year appropriations]

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

Brazilian Association for Leadership Development, São Paulo
\$115,000
In support of Brazil's national program for Leadership for Environment and Development.

\$128,000
Toward its activities as the host institution for the Leadership for Environment and Development program in Brazil.

Colégio de México, Mexico City
\$162,800
Toward the costs of planning and organizing activities for the participation in the network of Mexico's national environment and development program.

\$295,000
In support of Mexico's national program for Leadership for Environment and Development.

Committee for Soviet Scientists, Moscow, Russia
\$149,000
In support of a program for Leadership for Environment and Development in the Commonwealth of Independent States.

Cornell University, Ithaca, New York
\$15,000
Toward the costs of an interdisciplinary project. "The Multilateral process for global environment analysis: A program in law, economics and ethics." (Joint grant with Arts and Humanities, for a total of \$30,000.)

Foundation for Environmental Development and Education in Nigeria, Lagos
\$44,000
Toward its costs, as host institution in Nigeria under the Foundation's Leadership for Environment and Development program, in conducting a national seminar May 5-7, 1992, at which time a first group of 12 Nigerian Associates was selected.

\$90,000
In support of its start-up phase.

\$246,000
In support of the Leadership for Environment and Development in Nigeria.

International Academy of the Environment, Geneva, Switzerland
\$100,270
For support of the Leadership for Environment and Development program in India.

Foundation-administered projects \$1,300,000
For administrative expenses of the program.

\$300,000
To cover fees for directors, faculty, and consultants of the national programs, and honoraria for International Steering Committee members.

\$200,000
For the costs of an orientation session for faculty members of the national programs, held June 21-30, 1992, at Chiang Mai University, Thailand

National Institute of Biodiversity (INBIO), Heredia, Costa Rica
\$99,950
For development of a Biodiversity Prospecting Project.

People's Government of Hainan Province, China
\$50,000
Toward 1992-93 meetings of the International Advisory Council on the Economic Development of Hainan in Harmony with the Natural Environment

Thomas B. Reed, Colorado School of Mines, Golden
\$5,000
To advise the Government of China on gasification technology.

University of São Paulo, Brazil
\$50,000
Toward the costs of its graduate program on energy

U.S. Energy Program [1990 - \$2,200,000]
To establish the Energy Foundation and its program on U.S. energy efficiency and renewable energy sources - a collaborative initiative with the MacArthur Foundation and the Pew Charitable Trusts.

Energy Foundation, San Francisco, California
\$925,000
In support of its program on U.S. energy efficiency and renewable energy sources

Foundation-administered project \$7,050
Toward start-up costs of the South-led International Energy Initiative.

Winrock International Institute for Agricultural Development, Arlington, Virginia
\$78,800
In support of a sugarcane-to-energy test program in Thailand.

\$99,450
Toward a small grants program to strengthen the capacity of developing-country organizations to prepare proposals and manage projects in environmental areas.

Yale University, New Haven, Connecticut
\$16,750
Toward the costs of a development workshop on human health and the effective utilization of tropical forests in the Amazon river basin of Brazil, held September 9-11, 1992, at the Evandro Chagas Institute, Belém (Joint grant with Health Sciences, for a total of \$33,500)

Foundation-administered projects \$37,550
For costs of a Bellagio conference on ecotourism, held in February 1993. (Joint grant with Arts and Humanities, for a total of \$75,100)

\$20,000
For an International Negotiating Committee (INC)/Global Environment Facility (GEF) Conference, held in Montreux, Switzerland, October 20-22, 1992

African
Initiatives Grants

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

African Academy of Sciences, Nairobi, Kenya
[1992 - \$400,000, in addition to remaining funds from prior year appropriations]
To facilitate the Academy's core activities of strengthening a voice for the African scientific community in international science, expanding communication among existing pockets of scientific talent in Africa, encouraging new talent and leadership, and informing development policy debate in the region

African Dissertation Internship Awards
[1992 - \$1,400,000, 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

African Academy of Sciences, Nairobi, Kenya
\$18,470
For the 1992 workshop - held in Ibadan, Nigeria - in its continuing series that brings together awardees and African senior scientists in the interest of encouraging the former's post-graduation integration into the African scientific community

Ahmadu Bello University, Zaria, Nigeria
\$2,500
For administrative costs associated with Augustine Ezealor's dissertation research

John Baah, doctoral candidate from Ghana, award administered by the University of British Columbia, Canada
\$29,430
To conduct dissertation research at the University of Science and Technology,

Kumasi Ghana Research Title "Agricultural By-Product Utilization by Sheep and Goats in Ghana"

Mohamed Bakarr, doctoral candidate from Sierra Leone, award administered by the University of Miami, Florida
\$29,990
To conduct dissertation research at the University of Sierra Leone, Freetown
Research Title "Seedling Regeneration of Ectomycorrhizal Trees in a West African Lowland Tropical Rainforest"

Issac Boadi, doctoral candidate from Ghana, award administered by the New Mexico Institute of Mining and Technology, Socorro
\$2,535
In supplement to his award to allow his African host institution supervisor, G O Kesse of the Ghana Geological Survey, to attend Mr Boadi's dissertation defense

Awa Busia, doctoral candidate from the Ivory Coast, award administered by Cornell University, Ithaca, New York
\$26,990
To conduct dissertation research at the Ecole Nationale Supérieure des Travaux Publics, Yamoussoukro, Ivory Coast

Alpha Camara, doctoral candidate from Guinea, award administered by Purdue University, West Lafayette, Indiana
\$27,630
To conduct dissertation research at the Ministry of Public Health and Population, Conakry, Guinea
Research Title "Health Significance and Risk Factors for Childhood Toxocara Canis Infection in Guinea, Africa A Cross-Sectional Study"

Clark University, Worcester, Massachusetts
\$20,000

For use by its Department of Geography in recognition of the latter's contribution to the education of African doctoral students

\$4,500
To enable Dr Dianne Rocheleau advisor of Mr Francis Lelo, to confer with him during his field research in Kenya

Roddie Cole, doctoral candidate from the Gambia, award administered by the University of California, Berkeley
\$25,000
To conduct dissertation research at the Gambian Ministry of Trade, Industry, and Employment
Research Title "Housing Delivery Systems in Senegal and Gambia A Bottom-Up Approach to Evaluating Housing Markets and Housing Institutions"

Joseph DeGraft-Johnson, doctoral candidate from Ghana, award administered by the University of North Carolina at Chapel Hill
\$29,890

To conduct dissertation research at the University of Science and Technology, Kumasi Ghana
Research Title "Insights into the Occurrence of Maternal Morbidity in Bosomtwe-Atwima-Kwanwoma District, Ghana"

Ahou Diagne, doctoral candidate from Senegal, award administered by Michigan State University, Ann Arbor
\$24,070
To conduct dissertation research at the Senegalese Institute for Agricultural Research, Dakar
Research Title "An Evaluation of the Impacts of Macroeconomic Policies on the Consumption and Production Decisions and Welfare of the Agricultural Household in Senegal"

Serigne Diene, doctoral candidate from Senegal, award administered by Cornell University, Ithaca, New York
\$29,360
To conduct dissertation research at ORANA
Research Title "Improving Child Feeding Practices During Diarrhea and Malnutrition in the Fatick Region of Senegal"

Egerton University, Njoro, Kenya
\$2,500
For administrative costs associated with Francis Lelo's dissertation research

Augustine Ezealor, doctoral candidate from Nigeria, award administered by

Virginia Polytechnic Institute and State University, Blacksburg
\$33,570
To conduct dissertation research at Ahmadu Bello University, Zaria, Nigeria
Research Title "Integrated Avian Pest Damage Management Models for a Nigerian Sahelian Wetland"

Samuel Forjuoh, doctoral candidate from Ghana, award administered by Johns Hopkins University, Baltimore, Maryland
\$29,790
To conduct dissertation research at the University of Science and Technology, Kumasi, Ghana
Research Title "The Assessment of Physical Impairment and Disability Due to Burns in Children in the Ashanti Region of Ghana"

Fourah Bay College, University of Sierra Leone, Freetown
\$2,500
For administrative costs associated with Sylvia Ojukutu-Macauley's dissertation research

Horatio Freeman, doctoral candidate, from Sierra Leone award administered by the University of Minnesota, Minneapolis
\$21,150

To conduct dissertation research at the International Institute of Tropical Agriculture, Ibadan, Nigeria
Research Title "A Model of Agricultural Intensification in Semi-Subsistence Agriculture in Nigeria"

International Institute of Tropical Agriculture, Ibadan, Nigeria
\$2,500
For administrative costs associated with Horatio Freeman's dissertation research

Jomo Johns, doctoral candidate from Liberia, award administered by Iowa State University, Ames
\$15,610
To conduct dissertation research at the International Livestock Centre for Africa, Addis Ababa Ethiopia
Research Title "The Economic and Nutritive Evaluation of Rice Straw Brewers Grains Diet as a Source of Protein and Energy for Dry Season Feeding of Small Ruminants in Africa"

Johns Hopkins University, Baltimore, Maryland
\$4,270

To enable Dr William Renke, advisor of Dr Nosa Orobato, to confer with him during his field research in Nigeria

Stephen Kendie, doctoral candidate from Ghana, award administered by Rensselaer Polytechnic Institute, Troy, New York \$22,890
To conduct dissertation research at the University of Cape Coast, Ghana
Research Title "Making Rural Drinking Water Supply Programs Work in Ghana and Togo The Role of Community Participation and the Limits of the Conventional Program Delivery Approach"

Kenya Agricultural Research Institute, Kisumu \$2,500
For administrative costs associated with George Ombakho's dissertation research

Kenya Marine and Fisheries Research Institute, Mombasa \$2,500
For administrative costs associated with David Obura's dissertation research

Margaret Kilo, doctoral candidate from Cameroon, award administered by Stanford University, California \$31,140
To conduct dissertation research at the Ministry of Higher Education and Scientific Research, National Centre for Education and Scientific Research
Research Title "Gender Differences in Access to Schooling in Cameroon"

Lydia Kimenyi, doctoral candidate from Kenya award administered by Michigan State University, East Lansing \$24,290
To conduct dissertation research at the University of Nairobi, Kenya
Research Title "An Economic Analysis of the Organization of Kenya's Flower Exports Production and Marketing"

Francis Lelo, doctoral candidate from Kenya, award administered by Clark University, Worcester, Massachusetts \$23,500
To conduct dissertation research at Egerton University, Njoro, Kenya
Research Topic "Humanization of Wildlife Management A Case Study of the Ol Donyo Sabuk Park, Kenya"

Flavianus Magayane, doctoral candidate from Tanzania, award administered by the University of Illinois, Urbana \$31,500
To conduct dissertation research at the Sokome University of Agriculture, Morogoro Tanzania
Research Title "Soil Erosion Perception Among Smallholder Farmers Its Effect on Farmers' Adaptive Soil Conservation Efforts and its Personal Sociocultural, and Topographical Determinants"

Marie Mayoya, doctoral candidate from Senegal, award administered by Cornell University, Ithaca, New York \$27,290
To conduct dissertation research at the University of Burundi, Bujumbura
Research Title "Direct Private Costs and Educational Inequalities A Case Study of Access to Secondary Schooling in Burundi"

Michigan State University, East Lansing \$3,100
To enable Dr James Gallagher, advisor of intern Josephine Zesaguli, to confer with her during her field research in Zimbabwe

\$2,760
To enable Dr Eric Crawford, advisor of intern Aliou Diagne, to confer with him during his field research in Senegal

Ministry of Public Health and Population, Conakry, Guinea \$2,500
For administrative costs associated with Alpha Camara's dissertation research

Ministry of Trade, Industry, and Employment, Banjul, Gambia \$2,500
For administrative costs associated with Roddie Cole's dissertation research

Ngonidzasho Moyo, doctoral candidate from Zimbabwe, award administered by the University of Waterloo, Canada \$32,710
To conduct dissertation research at the University of Zimbabwe Harare
Research Title "The Feeding and Growth of *Serranochromis codringtoni* in Lake Kariba, Zimbabwe"

National Centre for Education, Yaoundé, Cameroon \$2,500
For administrative costs associated with Margaret Kilo's dissertation research

Albert Natsa, doctoral candidate from Zimbabwe, award administered by Michigan State University, East Lansing \$32,290
To conduct his dissertation research at the University of Zimbabwe, Harare
Research Title "An Investigation of Secondary School Language Teachers' Conceptions of Literacy and How These Conceptions Relate to Literacy Instruction in Zimbabwe"

Stephen Ndegwa, doctoral candidate from Kenya, award administered by Indiana University Bloomington \$27,730
To conduct dissertation research at the University of Nairobi Kenya
Research Title "Civil Society and the Promise of Political Development The Political Impact of Indigenous Non-Governmental Organizations in Kenya"

David Obura, doctoral candidate from Kenya, award administered by the University of Miami, Florida \$33,870
To conduct dissertation research at the Kenya Marine and Fisheries Research Institute, Mombasa
Research Title "Anthropogenic Disturbances to Reef Corals in Kenya An Analysis of Impact on Coral Populations of Fishing and Sedimentation"

Sylvia Ojukutu-Macauley, doctoral candidate from Sierra Leone, award administered by Howard University, Washington D C \$20,000
To conduct dissertation research at the University of Sierra Leone, Freetown
Research Title "Making the invisible visible Women, power, and change in northern Sierra Leone, 1896-1980"

George Ombakho, doctoral candidate from Kenya, award administered by Texas A&M University, College Station \$27,000
To conduct dissertation research at the Kenya Agricultural Research Institute Kisumu
Research Title "Performance Prediction, Genetic Effects and Stability Parameters in Sorghum Single and Three-Way-Cross Hybrids"

Organisme de Recherches sur l'Alimentation et la Nutrition Africaines (ORANA), Dakar, Senegal \$2,500
For administrative costs associated with Seigne Diene's dissertation research

Nosa Orobato, doctoral candidate from Nigeria, award administered by Johns Hopkins University, Baltimore, Maryland \$17,710
To conduct dissertation research at the University of Ilorin, Nigeria
Research Title "The Effect of Feedback on the Performance of Nurse Family Planning Providers in Nigeria"

Purdue University, West Lafayette, Indiana \$2,850
To enable Dr Larry Gluckman advisor of intern Alpha Camara, to confer with him during his field research in Guinea

Mesfin Samuel, doctoral candidate from Ethiopia, award administered by Queen's University, Kingston Ontario \$22,370
To conduct dissertation research at the Junma Institute of Health Sciences, Ethiopia
Research Title "Stress, Coping, and Resilience in Ethiopian Children"

Kamal Satti, doctoral candidate from Sudan, award administered by Colorado State University, Fort Collins \$25,430
To conduct dissertation research at the University of Gezira, Wad Medani Sudan
Research Title "The Role of Natural Regeneration in the Rehabilitation of the Abandoned Mechanized Farms in the Sudan"

Sengalese Institute for Agricultural Research, Dakar \$2,500
For administrative costs associated with Aliou Diagne's dissertation research

Sokoine University of Agriculture, Morogoro, Tanzania \$2,500
For administrative costs associated with Flavianus Magayane's dissertation research

University of Burundi, Bujumbura \$2,500 <i>For administrative costs associated with Marie Mayoya's dissertation research.</i>	<i>with Joseph DeGraft-Johnson's dissertation research.</i>	Stella Y. Erinsho, Ogun State University, Ago-Iwoye, Nigeria \$5,150 <i>For a study of girls' science education in Nigeria.</i>	\$75,000 <i>For institutional development.</i>
University of California, Los Angeles \$5,380 <i>To enable Mr. David Iyam's supervisor at the University of Calabar, Nigeria, Professor Daniel Offiong, to attend Mr. Iyam's dissertation defense at the University of California, Los Angeles.</i>	\$2,500 <i>For administrative costs associated with Samuel Forjuoh's dissertation research.</i>	Lesotho Science and Mathematics Teacher's Association, Roma \$4,000 <i>To expand and enrich production of its newsletter.</i>	Council for the Development of Social Science Research in Africa (CODESRIA), Dakar, Senegal \$100,000 <i>Toward the costs of a project on academic freedom in Africa.</i>
University of Cape Coast, Ghana \$2,500 <i>For administrative costs associated with Stephen Kendie's dissertation research.</i>	University of Zimbabwe, Harare \$2,500 <i>For administrative costs associated with Ngonidzashe Moyo's dissertation research.</i>	Malawi Institute of Education, Domasi \$35,000 <i>For a video project linking community science and technology with school science in Malawi.</i>	Female Participation in African Education [1992 - \$835,000, in addition to remaining funds from prior year appropriations] <i>To improve understanding of sex differences in school participation in sub-Saharan Africa, and help African countries design and test policies to increase female attendance and educational performance.</i>
University of Florida, Gainesville \$3,400 <i>To enable Mr. Bashir Jama's supervisor at the International Council for Research in Agroforestry in Nairobi, Kenya, Dr. M.R. Rao, to attend Mr. Jama's dissertation defense at the University of Florida.</i>	Josephine Zesaguli, doctoral candidate from Zimbabwe, award administered by Michigan State University, East Lansing \$32,860 <i>To conduct dissertation research at the University of Zimbabwe, Harare. Research Title: "Teacher Training and A-level Biology Teaching: A Description and Evaluation of the Zimbabwe Science Teacher Training Program."</i>	University of Dar es Salaam, Tanzania \$85,000 <i>Toward the costs of continuing its science camp for high school students in Tanzania, spreading the benefits of the camp to a larger population, and laying the foundation for national and village science centers.</i>	African Academy of Sciences, Nairobi, Kenya \$458,000 <i>Toward the costs of its project on research priorities for the education of girls and women in Africa.</i>
University of Gezira, Wad Medani, Sudan \$2,500 <i>For administrative costs associated with Kamal Satti's dissertation research.</i>	African Economic Research Consortium (AERC), Inc., Nairobi, Kenya [1992 - \$700,000, in addition to remaining funds from prior year appropriations] <i>To build human capacity in economic policy research and policy management in sub-Saharan Africa.</i>	University of Zimbabwe, Harare \$95,450 <i>For its project on Children's Scientific and Mathematical Problem-Solving Strategies and Teacher Support Models.</i>	Foundation-administered project \$100,000 <i>Program support expenses.</i>
University of Ilorin, Nigeria \$2,500 <i>For administrative costs associated with Nosa Orobato's dissertation research.</i>	Foundation-administered projects \$1,000 <i>For administrative expenses associated with the Foundation's involvement with the AERC.</i>	Zimbabwe Teachers' Association, Harare \$38,580 <i>For its project using microcomputer-based laboratories to promote the teaching/learning of science and technology in selected Zimbabwean high schools.</i>	RE-ENTRY SUPPORT FOR AFRICAN SCHOLARS PURSUING EDUCATION RESEARCH:
University of Nairobi, Kenya \$2,500 <i>For administrative costs associated with Stephen Ndegwa's dissertation research.</i>	\$89,497 <i>Toward support of the administrative costs associated with the launching of the AERC's Collaborative Master of Arts Programme.</i>	African Women Development and Communication Network (FEMNET), Nairobi, Kenya \$9,800 <i>Toward the costs of a FEMNET programming conference, held in Nairobi, October 4-8, 1992.</i>	Karin Hyde, University of Malawi, Zomba \$21,500 <i>To carry out a research project on instructional and institutional barriers to girls' achievement in secondary schools in Malawi.</i>
University of Science and Technology, Kumasi, Ghana \$2,500 <i>For administrative costs associated with John Baah's dissertation research.</i>	African Forum for Children's Literacy in Science and Technology [1992 - \$500,000, in addition to remaining funds from prior year appropriations] <i>To generate popular understanding in Africa among children and young adults of the practical applications of science and technology.</i>	Association of African Universities, Accra, Ghana \$30,000 <i>Toward the costs of a study on higher education in Africa and its future in the 1990s and beyond.</i>	Kenyatta University, Nairobi, Kenya \$2,500 <i>For administrative costs associated with Margaret M. Ngau's research project</i>
\$2,500 <i>For administrative costs associated</i>			Margaret M. Ngau, Kenyatta University, Nairobi, Kenya \$24,600 <i>To conduct research on factors that influence female educational access, achievement, and retention in primary schools in Kenya.</i>
			Cleaver Ota, University of Zimbabwe, Harare \$25,000 <i>For use as a re-entry award enabling him</i>

- to develop a time series computerized database for monitoring the educational progress of school girls in Zimbabwe.
- University of Malawi, Zomba
\$2,500
For administrative costs associated with Karin Hyde's research project.
- University of Zimbabwe, Harare
\$2,500
For administrative costs associated with Cleaver Ota's research project.
- International Federation of Library Associations and Institutions (IFLA), The Hague, Netherlands
\$25,000
Toward the costs of an IFLA pan-African conference on the preservation and conservation of library and archives material in Africa, to be held in Nairobi, June 1993.
- International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria
\$10,000
Toward the costs of a project on the dynamics of farmers' resource management strategies in the forest zone of Cameroon. (Joint grant with Agricultural Sciences, for a total of \$20,000.)
- National University of Lesotho, Roma
\$10,000
Toward the costs of the conference on women and development in Southern Africa organized by the Southern Africa Universities Social Science Conference (SAUSSC), held in Roma, Lesotho, December 14-16, 1992.
- Princeton University, New Jersey
\$20,000
Toward the costs of a research project entitled "Transforming development: Lessons from the creation and the early years of the African Training and Research Center for Women and UNIFEM."
- Reflections on Development Program
[1991 - \$650,000, in addition
- to remaining funds from prior year appropriations]
To encourage outstanding third-world scholars to focus on the most recent lessons, experiences, and challenges to development in different developing countries, and in the process to foster greater collaboration among scholars across countries and regions.
- Bassey W. Andah, University of Ibadan, Nigeria
\$27,000
For a reflection and writing project entitled "Aspects of indigenous technologies as base stations for development."
- Kabiru Sulaiman Chafe, Ahmadu Bello University, Zaria, Nigeria
\$27,000
For a reflection and writing project entitled "The impact of Islamic socio-economic ideals on the economy and society in Nigeria since the pre-colonial period."
- Council for the Development of Social Science Research in Africa (CODESRIA), Dakar, Senegal
\$450,000
Toward support of the Reflections on Development fellowship program.
- Abdelgalil Mahdi Elmekki, University of Khartoum, Sudan
\$27,000
For a reflection and writing project entitled "Sliding from starvation into famine: the political economy of food insecurity in the Sudan."
- Jeannette Hartmann, Dar es Salaam, Tanzania
\$26,970
For a reflection and writing project entitled "The Nyerere state."
- Institute for Southeast Asian Studies (ISEAS), Singapore
\$8,000
Toward the costs of holding a workshop at ISEAS for fellows in the Reflections on Development program in July 1992.
- Messay Kebede, Addis Ababa University, Ethiopia
\$27,000
For a reflection and writing project entitled "Development and cultural change: The issue and its theoretical significance."
- A.B.M. Mafeje, Cairo, Egypt
\$27,000
For a reflection and writing project entitled "The agrarian crisis in Eastern and Southern Africa. Its nature, causes, and effects."
- Okwudiba Nnoli, University of Nigeria, Nsukka
\$27,000
For a reflection and writing project entitled "Ethnicity and democracy in Africa."
- Obunikem Chukwumeka Nwokedi, Obafemi Awolowo University, Ile-Ife, Nigeria
\$27,000
For a reflection and writing project entitled "Democratic transition in Nigeria and Benin"
- Issa Gulamhussein Shivji, University of Dar es Salaam, Tanzania
\$27,000
For a reflection and writing project entitled "The rule of law and Ujamaa in the ideological formation of Tanzania."
- Foundation-administered project
\$38,000
Toward the costs of a conference of Reflections on Development fellows and advisors held at the Bellagio Study and Conference Center
- Social Science Research Council (SSRC), New York, New York
\$75,000
Toward support of its predoctoral fellowships in the social sciences and humanities on Africa.
- South African Development Grants
- African-American Institute, New York, New York
\$100,000
To assist the African-American Institute in the establishment of its South African office.
- Development Resources Centre, Johannesburg, South Africa
\$50,000
Toward support of its information and communications network (SANGONet).
- Health Systems Trust, Durban, South Africa
- \$100,000
To assist in establishing linkages with the National Epidemiology Boards.
- Institute for a Democratic Alternative for South Africa (IDASA), Cape Town
\$25,000
Toward the costs of participants from Southern African countries at IDASA's conference on South Africa's international economic relations in the 1990s, held in April 1993.
- Institute for a New South Africa, San Francisco, California
\$10,000
In support of its U.S.-South Africa Sister Community Project, and the latter's initiative on "Strengthening Local Democracy in South Africa."
- Market Theatre, Johannesburg, South Africa [1992 - \$190,00]
To strengthen the independent voices of southern African artists and activists by continuing Market Theatre's community-based Laboratory project and extending it into countries outside South Africa.
- University of the Western Cape, Bellville, South Africa
\$100,000
To establish a Program in Visiting Fellows in African History at the Institute for Historical Research.
- Woodrow Wilson International Center for Scholars, Washington, D.C.
\$20,000
Toward support of a project that would examine why countries, including South Africa, curtailed their own nuclear weapons programs. (Joint grant with International Security, for a total of \$35,386.)
- Third World Organization for Women in Science (TWOWS), Trieste, Italy
\$25,000
Toward the costs of the participation of African women scientists in the inaugural conference of the Third World Organization for Women in Science, held in Cairo, Egypt, January 1993.
- University of Zimbabwe, Harare
\$50,000

For use by its Faculty of Law toward the costs of the Southern African Moot Court Competition, held in Harare in September 1992

A Voice for Africa
[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

Africare,
Washington, D.C.
\$150,000

In support of its Constituency for Africa project

Brookings Institution,
Washington, D.C.
\$100,000

In continued support of its African Studies Program

World Learning, Inc.,
Brattleboro, Vermont
\$20,000

For an external review of the ORAP-SIT (Organisation of Rural Associations for Progress-School for International Training) program in grassroots development and NGO management

Foundation-administered projects
\$25,000

For a conference on Universal Primary Education in Bangladesh Towards a New Vision, held at the Bellagio Study and Conference Center, Italy, November 5-6, 1992

\$100,000

Toward the costs of a series of small, innovative projects relevant to the Foundation's Science-based Development Program in East Africa

Appointed from Haryana Agricultural University, Hisar, India
Place of Study Michigan State University, East Lansing

INDONESIA

Inez Hortense Slamet, Molecular Biology

Appointed from R&D Centre for Biotechnology, Indonesian Institute of Sciences, Bogor

Place of Study Leiden University, The Netherlands

KENYA

Margaret Wanja Kinuthia, Entomology

Appointed from Coffee Research Foundation, Ruru, Kenya

Place of Study University of Adelaide, Australia

Daniel Njiru Mugendi, Agroforestry

Appointed from Kenya Forestry Research Institute, Nairobi

Place of Study University of Florida, Gainesville

MOZAMBIQUE

Luisa Maria Kingwell Alcantara Santos, Entomology

Appointed from Eduardo Mondlane University, Maputo, Mozambique

Place of Study Cornell University, Ithaca New York

NEPAL

Tika B Adhikari, Genetics and Breeding

Appointed from Institute of Agriculture and Animal Science, Rampur, Chitwan, Nepal

Place of Study Kansas State University, Manhattan

PAKISTAN

Bushra Chaudhry, Genetics and Breeding

Appointed from Centre of Excellence in Molecular Biology, Lahore, Pakistan

Place of Study Carlsberg Research Center, Copenhagen, Denmark

Esther Kahn, Molecular Biology
Appointed from Center for Advanced

Molecular Biology, Lahore, Pakistan
Place of Study Cornell University, Ithaca, New York

PHILIPPINES

Edwin Plata Alcantara, Entomology

Appointed from National Institutes of Biotechnology and Applied Microbiology, Los Baños, Philippines
Place of Study Ohio State University, Columbus

Stanley Omar PB Samonte, Plant Breeding

Appointed from University of the Philippines, Los Baños
Place of Study Texas A&M University, College Station

SRI LANKA

Athula Lokhamaniya Thilak Percera, Genetics and Breeding

Appointed from University of Peradeniya, Sri Lanka
Place of Study University of Liverpool, United Kingdom

POPULATION SCIENCES

BELARUS

Natalia Ivanovna Krupenko, Reproductive Biology

Appointed from Belarus Academy of Sciences, Minsk
Place of Study Vanderbilt University, Nashville, Tennessee

CHINA

Li Xue-jun, Reproductive Biology

Appointed from Beijing Medical University, China
Place of Study The Population Council, New York, New York

Liang Zai, Demography

Appointed from University of Chicago, Illinois
Place of Study Brown University, Providence, Rhode Island

Xin Tan, Reproductive Biology

Appointed from The Population Council, New York, New York

Advanced Training Fellowships

AGRICULTURAL SCIENCES

Place of Study John Innes Institute, Norwich, United Kingdom

CHINA

Wang Zhumin, Molecular Biology

Appointed from Hebei Academy of Agricultural and Forestry Sciences, Shijiazhuang, China
Place of Study Cambridge Laboratory, Norwich, United Kingdom

EGYPT

Ragab Abdel-Khalik Ragab, Genetics and Breeding

Appointed from Minia University, Egypt
Place of Study Virginia Polytechnic Institute and State University, Blacksburg

INDIA

Rajiv Kumar Kapoor, Genetics and Breeding

Appointed from International Crops Research Institute for the Semi-Arid Tropics, Hyderabad, India

P B Kavi Kishor, Plant Molecular Biology

Appointed from Osmania University, Hyderabad, India
Place of Study Ohio State University, Columbus.

Halagappa Eswarappa Shashidhar, Crop Genetic Mapping

Appointed from University of Agricultural Sciences, Bangalore, India
Place of Study Texas Tech University, Lubbock

Inder Singh Sheoran, Plant Physiology

Appointed from Haryana Agricultural University, Haryana, India
Place of Study University of Montreal, Canada

Elumalai Sivamani, Plant Molecular Biology

Appointed from Anna University, Madras, India
Place of Study The Scripps Research Institute, La Jolla, California

Neelam Yadav, Genetics and Breeding

**Biotechnology
Career Fellowships**

Place of Study: The Population Council, New York, New York.

Yang Quanhe, Demography.
Appointed from Australian National University, Canberra.
Place of Study: Population Institute, the East-West Center, Honolulu, Hawaii.

Yang Liang-Sheng, Reproductive Biology.
Appointed from Guangzhou Medical College, China.
Place of Study: The Population Council, New York, New York.

INDIA

Jaideep Chaudhary, Reproductive Biology.
Appointed from All India Institute of Medical Sciences, New Delhi.
Place of Study: University of California, San Francisco.

Ravinda Nath Dhir, Reproductive Biology.
Appointed from National Institute of Health and Family Welfare, New Delhi, India.
Place of Study: University of Pennsylvania Medical Center, Philadelphia.

Yogesh Kumar Jaiswal, Reproductive Biology.
Appointed from Jiwaji University, Gwalior, India.
Place of Study: The Population Council, New York, New York.

Thangamuthu Lakshmanasamy, Demography.
Appointed from University of Madras, India.
Place of Study: University of Southern California, Los Angeles.

Poothi Prabhakara Reddi, Reproductive Biology.
Appointed from National Institute of Immunology, New Delhi, India.
Place of Study: University of Virginia, Charlottesville

NEPAL

Arun Raj Joshi, Demography
Appointed from Harvard University,

Cambridge, Massachusetts.
Place of Study: Harvard University, Cambridge, Massachusetts.

Bhanu Bhakta Niraula, Demography.
Appointed from Australian National University, Canberra.
Place of Study: University of Pennsylvania, Philadelphia

NIGERIA

Alex Chika Ezeh, Demography.
Appointed from University of Pennsylvania, Philadelphia.
Place of Study: University of Pennsylvania, Philadelphia.

Oyewole D. Olaleye, Demography
Appointed from Obafemi Awolowo University, Ile-Ife.
Place of Study: University of Pennsylvania, Philadelphia

PANAMA

Jaime Leonel Lasso del Castillo, Reproductive Biology.
Appointed from Asociacion Panameña Para el Planeamiento de la Familia, Panama City, Panama.
Place of Study: University of Pennsylvania Medical Center, Philadelphia.

UNITED KINGDOM

Jeremy John Brown, Reproductive Biology.
Appointed from Tufts University, Boston, Massachusetts.
Place of Study: Tufts University, Boston, Massachusetts

UNITED STATES

Sara Reynolds Curran, Demography.
Appointed from University of North Carolina, Chapel Hill.
Place of Study: University of North Carolina, Chapel Hill.

Timothy William Miller, Demography.
Appointed from University of California, Berkeley.
Place of Study: University of California, Berkeley.

AGRICULTURAL SCIENCES

CHINA

Chen Jing Chun, Institute of Botany, Beijing.
Molecular analysis of male gametogenesis in plants, at the University of California, Berkeley.

Fang Rong-Xiang, Institute of Microbiology, Beijing.
Structure and function of Rice Yellow Stunt Virus, at The Rockefeller University, New York City. (Renewal)

Wen Fujiang, Shandong Agricultural University.
Bioengineered resistance to rice viral infection, at Purdue University, West Lafayette, Indiana.

ETHIOPIA

Mehari Tetemke, Addis Ababa University.
Biochemical and molecular biology techniques for optimizing photosynthetic efficiency of C4 organisms, at the University of Nebraska, Lincoln.

INDIA

Viraraghavan Ramamurthy, Thapar Corporate Research and Development Centre, Patiala.
*Development of *Spirulina platensis* as a biotechnological tool, at Harvard University, Cambridge, Massachusetts.*

P. Sreenivasula Reddy, Pondicherry University.
Cloning of the gene for molt-inhibiting hormone from crustacean species, at the University of California, Davis.

PHILIPPINES

Narceo B. Bajet, University of the Philippines at Los Baños.
Molecular diagnosis and characteriza-

tion of tungro infections, at The Scripps Research Institute, La Jolla, California.

THAILAND

Piyada Theerakulpisut, Khon Kaen University.
Expression and function of rice anther- and pollen-specific genes, at the University of Melbourne, Australia.

VENEZUELA

Gustavo Benaim Attias, Universidad Central de Venezuela, Caracas.
The calmodulin-dependent plasma membrane pump of trypanosomatids, at the University of Illinois, Urbana-Champaign.

VIETNAM

Nguyen Van Uyen, Biotechnology Research Center, Ho Chi Minh City.
Improving disease resistance in Vietnamese potato cultivars, at the University of Wisconsin, Madison.

ZIMBABWE

Idah Sithole, University of Zimbabwe, Harare.
Cowpea aphid-borne mosaic potyvirus protection using transdominant lethal mutations, at the University of Wisconsin, Madison.

HEALTH SCIENCES

CHINA

Han Qide, Beijing Medical University.
Molecular analysis of adrenergic receptor subtypes in the cardiovascular system, at Emory University, Atlanta, Georgia. (Renewal)

INDIA

Subramony Mahadevan, Indian Institute of Science, Bangalore
Characterization of mRNA 3'-end formation in yeast, at the Harvard Medical School, Boston, Massachusetts.

C. Pannercselvam, University of Madras.

Characterization of the parathymosin gene, regulation of the ProT and ParaT genes; expression of ProT and ParaT in the proliferative cycle, at the Cornell University Medical College, New York City (Renewal)

K. V. Alchuta Ramaiah, University of Hyderabad.

Functional properties of a deletion mutant of the cDNA of the heme-regulated eIF-2 kinase, at the Massachusetts Institute of Technology, Cambridge, Massachusetts. (Renewal)

NIGERIA

Jibril Al-Amin, University of Maiduguri.

*Pathogenesis of ovine abortion caused by *Chlamydia psittaci*, at the Royal Veterinary College, Potters Bar, United Kingdom.*

SOUTH AFRICA

Azwitvelhi Prinsloo Nevhutalu, University of the North, Sovenga
*Comparison of the structure of cercarial protease of schistosomes endemic to South Africa with that of *Schistosoma mansoni*, at the University of California, San Francisco*

THAILAND

Srirung Songsivilai, Mahidol University, Bangkok.

Development and application of antibody engineering technology for studying common infectious diseases in Thailand, at the Medical Research Council Centre, Cambridge, United Kingdom

Worachart Sirawaraporn, Mahidol University, Bangkok

Recombinant thymidylate synthase-dihydrofolate reductase, mutagenesis to study the molecular mechanism of pyrimethamine resistance in

Plasmodium falciparum, at the University of California, San Francisco

POPULATION SCIENCES

CHILE

Hernán E. Lara, University of Chile, Santiago.
Neuroendocrine and molecular studies of the neural contribution to the etiology of polycystic ovarian syndrome, at the Oregon Regional Primate Center, Beaverton

INDIA

A. Jagannadha Rao, Indian Institute of Science, Bangalore.
Role of Luteinizing Hormone in differentiation of progenitor mesenchymal cells into functional Leydig cells, at the Population Council, New York, New York. (Renewal)

MEXICO

María del Carmen Clapp Jiménez L., National University of Mexico, Mexico City
The 16kd n-terminal fragment of prolactin as a specific angiolytic factor, at the University of California, San Francisco (Renewal)

Gonzalo Martínez de la Escalera, National University of Mexico, Mexico City.
Cellular mechanisms in the generation of GnRH pulses, at the University of California, San Francisco. (Renewal)

Felipe Vadillo-Ortega, National Institute of Perinatology, Mexico City, Mexico.
Participation of matrix metalloproteinases in the pathogenesis of premature rupture of membranes, at the University of Pennsylvania, Philadelphia

NIGERIA

Abiodun O. Ilesanmi, University of Ibadan.
Immunohistochemical and molecular characterization of integrins in ovarian cancer, at the University of Pennsylvania, Philadelphia.

Social Science Research Fellowships in Agricultural and in Population Sciences

AGRICULTURAL SCIENCES

Aden Aw-Hassan, an agricultural economist studying economic and environmental impacts of the introduction of improved cereal and legume cultivars and associated technologies in the Nile Valley Region, while located at the International Center for Agricultural Research in the Dry Areas (ICARDA) project in Cairo, Egypt.

Robin Marsh, an agricultural economist studying household vegetable gardens in Central America, while located at the Asian Vegetable Research and Development Center (AVRDC), Tainan, Taiwan

Ousseynou Ndoye, an agricultural economist studying production and commercialization possibilities for non-traditional crops in the forest zone of Africa, while located at the International Institute of Tropical Agriculture (IITA) project in Yaoundé, Cameroon.

William Sunderlin, a development sociologist studying management options and strategies for a common-property fishery resource, while located at the International Center for Living Aquatic Resources Management (ICLARM), Manila, Philippines.

Matthew Turner, an energy and resource specialist studying the effects of economic and ecological changes on livestock production and resource management in the Sudano-Sahelian zone of West Africa, while located at the International Livestock Centre for Africa (ILCA) project in Niamey, Niger.

POPULATION SCIENCES

Kurt Barnhart, an obstetrician/gynecologist studying the ethics of international family planning, while located at the University of Chile School of Medicine, Santiago.

Arts and
Humanities Grants

THE ARTS AND HUMANITIES division encourages creative artists and scholars in the humanities whose work can advance international and intercultural understanding in the United States. The division therefore supports activities extending international and intercultural scholarship, and increasing artistic experimentation across cultures.

EXTENDING
INTERNATIONAL AND
INTERCULTURAL
SCHOLARSHIP

American University,
Washington DC
\$20,580
*For a Bellagio conference entitled
Cultural Agency/Cultural Authority
Politics and Poetics of Intellectual
Property in the Post Colonial Era*

Artistas e Intelectuales
(Grupo de Los Cien)
Mexico City, Mexico
\$127,400
*To enable it to work with an interna-
tional network of writers, scientists
and environmentalists to address
environmental problems*

Asian American Arts Centre,
New York, New York
\$40,000
*For activities designed to build public
interest in the Centre's upcoming exhi-
bition 'Asian American Artists and
their Milieu 1945-1965'*

Brazilian Association for
Leadership Development,

São Paulo
\$99,500
*For its project 'Ecological-Economic
Policy Development and Evaluation
in Brazil'*

Brooklyn Historical Society,
New York, New York
\$25,000
*Toward the costs of a planning
conference for the Stonewall
Exhibition Project*

Center for African Art,
New York, New York
\$10,000
*Toward the costs of a conference
Africa by Design held in May 1992*

\$100,000
*For expenses related to exhibition of
Senegalese and Ivorian artists at the
1993 Venice Biennale*

Center for Cultural Survival,
Cultural Survival Inc
Cambridge, Massachusetts
\$100,000
Toward support of the center

College Art Association,
New York, New York
\$40,000

*For a mentoring program that will
enable minority scholars of art history
to participate in the Association's 1993
annual conference*

Cornell University,
Ithaca, New York
\$15,000
*Toward the costs of an interdis-
iplinary project 'The Multilateral
Process for Global Environment
Analysis: A Program in Law,
Economics and Ethics' (Joint grant
with the Global Environment Division
for a total of \$30,000)*

Harvard University,
Cambridge, Massachusetts
\$9,450
*In final support for its program in
development history*

\$25,000
*For use by the W E B DuBois
Institute for Afro-American Research
for the publication of the Harvard
Guide to African-American History.*

Hastings Center,
Brarcliff Manor, New York
\$42,680
*Toward the costs of a study involving
(1) discussion of the ways in which
public policy might be influenced by the
availability of long term contraception
and (2) the formulation of proposed
ethical criteria against which uses might
be judged (Joint grant with Population
Sciences for a total of \$85,360)*

Houston Fotofest,
Texas
\$38,214
*Toward the research and documenta-
tion phase of the exhibition
American Voices*

*Latino/Chicano/Hispanic
Photography in the United States*

International Arts Relations, Inc.,
New York, New York
\$5,760
*For Phase I of its Americas Visual
Arts Project*

International Biosafety Commission
[1992 - \$100,000]
*To assist the Stockholm Environment
Institute, Sweden, in establishing an
international Biotechnology Advisory
Commission to which developing coun-
tries can apply for advice on the risks
and benefits associated with the release
of genetically engineered organisms
(Joint grant with Agricultural
Sciences for a total of \$500,000)*

Maryland Public Broadcasting
Commission,
Owings Mills
\$100,000
*Toward repackaging, marketing and
distribution costs in presenting 'Devel-
oping Stories' a film series on envi-
ronmental subjects by developing-world
filmmakers to American audiences*

National Association of Latino Arts
and Culture
San Antonio, Texas
\$30,000
*Toward the costs of its national con-
ference on Latino issues entitled 'Crossing
Borders' held in September 1992*

National Cultural Alliance
Washington, D C
\$17,500
*Toward its national campaign for
expanding public awareness of the
critical role of the arts and humanities*

in the U.S. (Also listed under the division's guideline *Increasing Artistic Experimentation Across Cultures*.)

New Museum of Contemporary Art,
New York, New York
\$25,000
Toward research and development costs for its exhibition "Trade Routes," scheduled to open in September 1993.

North American Congress on Latin America, Inc.,
New York, New York
\$10,000
Toward the costs of publishing a Report on the Americas special 1992 edition on the African peoples of Latin America and the Caribbean.

People for the American Way, Inc.,
Washington, D.C.
\$75,000
In support of its "Artsave" project.

Resident Fellowships in the Humanities
[1992 - \$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 and to strengthen institutional programs where such scholarship is sustained.

Center for Psychosocial Studies,
Chicago, Illinois
\$9,500
*Toward the travel costs of the participants from Russia, China, and India in the Bellagio conference entitled "The Internationalization of Civil Society and the Public Sphere." (Also listed under the division's guideline *Fortifying Institutions of the Civil Society*.)*

Cornell University,
Ithaca, New York
\$250,000
Toward the costs of a program of Rockefeller Foundation Resident Fellowships in its Department of Science and Technology Studies and its Program on Ethics and Public Life.

Graduate School and University Center of the City University of New York, New York

\$250,000
Toward the costs of a program of Rockefeller Foundation Resident Fellowships at its Center for Lesbian and Gay Studies.

Hunter College, City University of New York, New York
\$250,000
Toward the costs of a program of Rockefeller Foundation Resident Fellowships at its Center for Puerto Rican Studies

Instituto de Investigaciones Dr. Jose Maria Luis Mora (Instituto Mora),
Mexico City, Mexico
\$82,500
Toward the costs of its U.S. history project.

Stanford University,
California
\$236,500
Toward the costs of a program of Rockefeller Foundation Resident Fellowships in Legal Humanities at the Stanford Humanities Center.

University of Florida,
Gainesville
\$250,000
Toward the costs of a program of Rockefeller Foundation Resident Humanities Fellowships at its Center for Latin American Studies and its Center for African Studies.

University of Michigan,
Ann Arbor
\$249,500
Toward the costs of a program of Rockefeller Foundation Resident Fellowships at its Center for Afro-American and African Studies.

University of New Mexico,
Albuquerque
\$160,000
Toward renewed support of the costs of a program of Rockefeller Foundation Resident Fellowships at its Southwest Hispanic Research Institute.

Foundation-administered projects
\$60,000
For administrative expenses.

\$85,000
For consultants' fees and costs of meetings associated with follow-up of the program evaluation

Smith College,
Northampton, Massachusetts
\$52,000
Toward the costs of a research project, "Cultural Politics and the Transformation of 'Development': Afro-Colombian Responses to Modernization."

Television Trust for the Environment,
London, England
\$49,000
To extend its database of environmental videos and films.

Texas A&M Research Foundation,
College Station
\$61,550
For use by the university's Center for Biotechnology Policy and Ethics in (1) convening an October 1992 Bellagio meeting of U.S. and African experts to discuss "Ethics and Agricultural Development in Africa," and (2) developing "A New Agenda for the Humanities in Development."

Understanding Cultures through Museums
[1992 - \$1,000,000, in addition to remaining funds from prior year appropriations]
To enable museums to conduct research for, develop, and present accurate, imaginatively powerful exhibitions of non-Western and American minority cultures.

American Center for Students and Artists, Inc.,
Paris, France
\$30,000
Toward the costs of its exhibition "Landscape as Metaphor. Visions of America at the End of the Century."

American Craft Museum,
New York, New York
\$50,000
Toward costs of research and design for its exhibition "Multicultural and Regional Traditions - 1920-1945: Craft Revivals."

Arizona State University Foundation,
Tempe
\$50,000
For use by the University Art Museum at the College of Fine Arts, for the

exhibition "Too Late for Goya: Works by Francesc Torres."

Asia Society,
New York, New York
\$25,000
In support of the first International Roundtable Meeting of its Contemporary Arts Initiative, held in September 1992.

Center for African Art,
New York, New York
\$80,000
Toward the costs of its traveling exhibition, "Secrecy: African Art that Conceals and Reveals."

Centro Cultural De La Raza,
San Diego, California
\$25,000
Toward the exhibition, "Linea a Puente/Barrier to Bridge: Art about the U.S./Mexican Border."

Chinatown History Museum,
New York, New York
\$50,000
Toward the costs of its traveling exhibition and interactive programs in the "new Chinatown" neighborhoods of Brooklyn and Queens, New York City.

Exit Art, Inc.,
New York, New York
\$50,000
Toward support of its multidisciplinary exhibition project, "Parallel History," which examines the transcultural nature of U.S. society.

Heard Museum,
Phoenix, Arizona
\$10,000
In support of its exhibit, "CHISPAS! Cultural Warriors from New Mexico."

Independent Curators, Inc.,
New York, New York
\$50,000
Toward the costs of its exhibition, "Unfaithful Realities: Six Artists from Brazil."

Institute of American Indian Arts Foundation,
Santa Fe, New Mexico
\$75,000
For use by the Institute of American Indian Arts Museum in preparing an exhibition entitled "Creativity is Our Tradition."

Institute of Contemporary Art,
Boston, Massachusetts

- \$25,000
Toward research, planning and documentation of the exhibition, "The Tethered Shadow"
- Jewish Museum,
New York, New York
\$50,000
Toward the costs of its exhibition, "African Americans and American Jews: The Struggle for Justice."
- Mexican Fine Arts Center,
Chicago, Illinois
\$50,000
Toward the costs of its exhibition, "The Art of the Other Mexico: Sources and Meaning."
- Milwaukee Public Museum,
Wisconsin
\$75,000
Toward the costs of its exhibition, "A Tribute to Survival," portraying the culture of North American Indians.
- Polarities Incorporated,
Brookline, Massachusetts
\$50,000
Toward the costs of presenting in the U.S. an exhibition entitled "Ante America," organized in collaboration with the Biblioteca Arango, Bogotá, Colombia.
- San Diego Museum of Contemporary Art,
California
\$25,000
Toward the costs of its exhibition, "Linea A Puente/Barrier to Bridge: Art about the US/Mexican Border."
- Sculpture Chicago,
Illinois
\$75,000
Toward the costs of the exhibition, "Culture in Action: New Public Art in Chicago."
- Self-Help Graphics and Arts, Inc.,
Los Angeles, California
\$25,000
In support of its "Images of the Frontera" project.
- Smithsonian Institution,
Washington, D.C.
\$50,000
For third-year support of the Experimental Gallery.
- Studio Museum in Harlem,
New York, New York
\$50,000
- Toward the costs of its exhibition, "Wifredo Lam and His Contemporaries."*
- University of California,
Los Angeles
\$75,000
For use by its Wight Art Gallery in mounting the exhibition, "The View from Within: Japanese American Art from the Internment Camps, 1942-1946."
- Winnipeg Art Gallery,
Manitoba, Canada
\$50,000
In support of its exhibition, "Another Cartography: 14 Latin American Artists."
- Yale University,
New Haven, Connecticut
\$25,000
For use by the Yale University Art Gallery toward the costs of its exhibition, "South of the Border: American Artists, Politics, and the Picturesque in Mexico, 1917-1947."
- University of Ghana,
Legon
\$100,000
To establish the International Center for African Music and Dance.
- University of Houston, Texas
[1992 - \$300,000]
To continue support for a long-term research, preservation, and publication project to recover the Hispanic literary heritage of the United States.
- University of Maryland
Foundation, Inc.,
College Park
\$10,000
In support of the conference on "Culture, Authoritarianism, and Re-democratization in Chile."
- University of Pittsburgh,
Pennsylvania
\$34,535
For use by the International Center for Culture and Development at its College of General Studies in holding a Bellagio conference entitled "The Study of African Music and Dance: Problems and Prospects."
- World Institute for Development Economics Research (WIDER),
Helsinki, Finland
\$99,500
For an environmental ethics project entitled "Alternative Approaches to the Greening of Economics."
- Yale University,
New Haven, Connecticut
[1992 - \$100,000, in addition to remaining funds from prior year appropriations]
To support an interdisciplinary and comparative program for U.S. and third-world scholars in agrarian studies. (Joint appropriation with African Initiatives and Agricultural Sciences, for a total of \$200,000.)
- Foundation-administered projects
\$5,580
For reimbursement of expenses incurred by subgrantees under a 1990 grant to the Western Behavioral Sciences Institute.
- \$37,550
For costs of a Bellagio conference on ecotourism, held February 1993. (Joint grant with the Global Environment Division, for a total of \$75,100.)
- FORTIFYING
INSTITUTIONS OF THE
CIVIL SOCIETY
- American Academy of Arts and Sciences,
Cambridge, Massachusetts
\$25,000
Toward phase-one costs of its "Social Capital and Public Affairs" project.
- American Center of International Leadership,
Baltimore, Maryland
\$15,175
For a fact-finding mission to Uzbekistan and a report.
- Center for Psychosocial Studies,
Chicago, Illinois
\$50,000
Toward the costs of a project on the organization of social and cultural criticism in contemporary China
- \$10,000
Toward the travel costs of the participants from Russia, China, and India in the Bellagio conference entitled "The Internationalization of Civil Society and Public Sphere," to be held on August 23-27, 1993. (Also listed under the division's guideline Extending International and Intercultural Scholarship.)
- Charter Seventy-Seven Foundation, Inc.,
New York, New York
\$25,000
Toward the travel costs of Latin American delegates to an international conference held in Salzburg, Austria, in March 1992 as part of a year-long project entitled "Justice in Times of Transition."
- National Humanities Center,
Research Triangle Park, North Carolina
\$100,000
For the Latin American Civil Society Project.
- Panos Institute,
Paris, France
\$75,000
For its pilot program to strengthen independent radio in West Africa.
- Strengthening African Museums [1992 - \$250,000]
To foster a set of initiatives that will help provide an institutional framework for society-building activities by African museums.
- International African Institute,
London, England
\$100,000
Toward support of the West African Museums Project's seminar program, "Museums, Research, Education," and related publications.
- International Council of Museums,
Paris, France
\$50,000
Toward phase-one costs of a project designed to move African museums toward greater autonomy.
- Museums Association of Namibia,
Windhoek
\$5,995

Toward costs of an initial meeting of the steering committee appointed by the Southern African Development Coordination Conference Association of Museums to organize a training program for museum educators in the region.

Social Science Research Council, New York, New York
\$30,000
For support of the exhibition and outreach component of the African Archives and Museums project.

Strengthening African Publishing [1992- \$520,000]
To secure and strengthen the activities of indigenous African publishers.

Canadian Organization for Development through Education, Ontario
\$10,150
Toward the costs of a conference on the establishment of the African Publishing Institute, held February 19-21, 1992, in Harare, Zimbabwe.

\$5,000
Toward the costs of holding donor workshops in Harare, Zimbabwe

Obor, Inc., Clinton, Connecticut
\$2,000
To distribute free copies of the book, *Publishing and Development in the Third World*, to key publishers and librarians in Africa.

Slate University of New York at Buffalo
\$24,350
For a research project and other activities related to indigenous publishing in Africa and the third world.

Foundation-administered project
\$8,500
Toward administrative costs.

United Nations, New York, New York
\$40,000
Toward the travel and living expenses of non-UN and non-UNESCO participants in a Seminar on Promoting an Independent and Pluralistic Asian Press, held in Alma-Ata, Kazakhstan, in September-October 1992.

University of Maryland Foundation, Inc., Baltimore
\$19,109
For a workshop entitled *Sociocultural Conditions*.

Foundation-administered projects
\$25,111
Toward the costs of co-sponsoring an International Conference on Culture and Development in Africa, held in Washington, D.C., April 2-3, 1992

\$50,000
For a Bellagio conference entitled, "Pluralism and its Cultural Expressions."

INCREASING ARTISTIC EXPERIMENTATION

ACROSS CULTURES

Alternate Roots, Atlanta, Georgia
\$25,000
For the Community/Artists Partnership Project.

American Composers Orchestra, Inc., New York, New York
\$15,000
Toward the research and development phase of its *Music of the Americas* program.

American Music Theater Festival, Philadelphia, Pennsylvania
\$15,000
For costs related to remounting the production of "Frida" in preparation for a national tour.

American Symphony Orchestra League, Washington, D.C.
\$75,000

For the National Task Force component of "The American Orchestra: An Initiative for Change."

Artists' Projects: Regional Initiative [1992 - \$275,000, in addition to remaining funds from prior year appropriations]
To assist emerging American performing artists to develop new

work and reach new audiences through arts organizations in their own parts of the country.

Each grantee below receives additional funds from the National Endowment for the Arts and The Andy Warhol Foundation for the Visual Arts to administer a regional regranting program supporting projects by individual artists.

Alternate Roots, Atlanta, Georgia
\$22,900

Contemporary Arts Center, New Orleans, Louisiana
\$20,650

80 Langton Street, San Francisco, California
\$11,470

Helena Presents, Montana
(Collaborative project with the Colorado Dance Festival, Boulder)
\$18,800

Intermedia Arts of Minnesota, Inc., Miami, Florida
\$18,870

Los Angeles Contemporary Exhibitions, California
\$15,170

Lower Manhattan Cultural Council, Inc., New York
\$3,500
For a study of the implementation of its nomination process.

Mexic-Arte, Austin, Texas
(Collaborative project with DiverseWorks, Houston, Texas)
\$22,200

New England Foundation for the Arts, Cambridge, Massachusetts
\$18,879

On the Boards, Seattle, Washington
\$11,840

Painted Bride Art Center, Philadelphia, Pennsylvania
\$15,900

Puerto Rico Community Foundation, Inc., Hato Rey
\$9,620

Pyramid Arts Center, Inc., Rochester, New York
(Collaborative project with Lower Manhattan Cultural Council, Inc., New York)
\$22,200

Randolph Street Gallery, Chicago, Illinois
\$18,870

State Dance Association of Florida, Inc., Florida
(Collaborative project with the MetroDade Cultural Affairs Council)
\$7,640

Foundation-administered project
\$39,000
For administrative costs.

Arts Midwest, Minneapolis, Minnesota
\$50,000
For Phase II of its *Cultural Development Program*.

The Association of American Cultures (TAAC), Washington, D.C.
\$65,000
Toward support of *Leadership 2000*, a pilot program in leadership development for ethnic and multicultural community-based arts organizations.

Computer Music Residencies [1992 - \$150,000, in addition to remaining funds from prior year appropriations]
To support a collaborative residency and exchange program for composers of computer music.

Centro Cultural Ciudad de Buenos Aires, Argentina
\$48,490
For the costs of a collaborative residency and exchange program for computer music composers at the *Laboratorio de Investigación y Producción Musical*.

Stanford University, California \$48,203 <i>For use by the Center for Computer Research in Music and Acoustics for its residency and exchange program for computer music composers.</i>	American Dance Festival, Inc., New York, New York \$141,000 <i>In support of its international programs for choreographers and its festival of Latin American dance companies.</i>	Los Angeles Festival, California \$50,000 <i>Toward second-phase curatorial planning for the 1993 Los Angeles Festival.</i>	<i>In support of its 1992-93 composer-in-residence program.</i>
University of California, San Diego \$55,000 <i>For the costs of a collaborative residency and exchange program for computer music composers at its Center for Research in Computing and the Arts.</i>	Appalshop, Inc., Whitesburg, Kentucky \$50,000 <i>Toward support of its 1992 American Festival Project.</i>	Louisville Orchestra, Inc., Kentucky \$50,000 <i>In support of its festival, SoundCelebration II. A Global Exploration of Contemporary Music.</i>	Institute of International Education, New York, New York [1992 - \$365,000, in addition to remaining funds from prior year appropriations] <i>To improve and increase the role of American artists in international visual arts exhibitions and performing arts festivals throughout the world.</i>
Cornell University, Ithaca, New York \$20,000 <i>For use by its Department of Theatre Arts toward the costs of the Community-Based Arts Project's symposium, "Community-Based Theater in Historical and Contemporary Perspectives."</i>	Boston Dance Umbrella, Massachusetts \$75,000 <i>In support of the 1992 Native American Festival.</i>	Movement Theatre International, Inc., Philadelphia, Pennsylvania \$55,000 <i>For the residency of the Vietnamese Water Puppets company.</i>	Intercultural Film/Video Program [1992 - \$925,000, in addition to remaining funds from prior year appropriations] <i>To enable film and video artists within the United States and internationally to create work that explores cultural diversity.</i>
Dance Bay Area, San Francisco, California \$30,000 <i>Toward its 1992 Bay Area Fund for Dance Commissioning Project.</i>	Brooklyn Academy of Music, New York, New York \$23,000 <i>Toward its 1992 festival of contemporary Arab and Israeli artists.</i>	National Black Arts Festival, Inc. Atlanta, Georgia \$75,000 <i>Toward support of the New Play Project and international artists' activities of its 1992 festival.</i>	Foundation-administered project \$40,000 <i>For administrative expenses.</i>
Dance Theatre of Harlem, Inc., New York, New York \$25,000 <i>Toward the costs of its residency at the Civic Theater, Johannesburg, South Africa.</i>	Festival International de Louisiane, Lafayette, Louisiana \$45,000 <i>Toward its 1992 international festival activities.</i>	New Music Alliance, Philadelphia, Pennsylvania \$50,000 <i>In support of the 1992 New Music Across America Festival.</i>	SELECTED IN 1993: Larry Andrews, Oakland, California \$35,000 <i>For an experimental documentary entitled "Fantasy Island."</i>
Dance Theater Workshop, New York, New York [1992 - \$275,000, in addition to remaining funds from prior year appropriations] <i>To continue support for its Suitcase Fund, a program of reciprocal touring and collaboration by artists and performing arts companies from the United States and abroad.</i>	Guadalupe Cultural Arts Center, San Antonio, Texas \$75,000 <i>Toward the costs of the 16th TENAZ (Teatros Nacionales de Aztlan) Festival and Conference, and accompanying International Playwriting Competition.</i>	New York Shakespeare Festival, New York \$30,000 <i>For the 1992 festival entitled "Madness Continues: A Festival of New Voices."</i>	Carlos Aparicio, Brooklyn, New York \$35,000 <i>For a documentary entitled "Open Wounds."</i>
Festival Fund [1992 - \$1,000,000, in addition to remaining funds from prior year appropriations] <i>To encourage festival activities in the United States that broaden intercultural or international exchange.</i>	Henson Foundation, New York, New York \$80,000 <i>In support of participation by the Argentine puppet company, Diablolmundo, in the International Festival of Puppet Theater.</i>	Teatro Avante, Inc., Miami, Florida \$50,000 <i>Toward support of the 1992 International Hispanic Theatre Festival.</i>	Gregg Araki, Los Angeles, California \$35,000 <i>For a feature length narrative entitled "The Separation of the Earth from its Axis."</i>
	International Theatre Festival of Chicago, Illinois \$50,000 <i>Toward the expenses of Latin American and other international companies taking part in its 1992 festival.</i>	Film Society of Lincoln Center, New York, New York \$25,000 <i>Toward the first annual African Film Festival.</i>	Fernando Belens, Bahia, Brazil \$35,000 <i>For a documentary with fictional elements entitled "Heteros: A Comedy."</i>
	Jacob's Pillow Dance Festival, Inc., Lee, Massachusetts \$25,000 <i>Toward the planning phase of its international arts activities.</i>	Guadalupe Cultural Arts Center, San Antonio, Texas \$25,000 <i>Toward phase III of its master artists' residency program.</i>	James Benning, Val Verde, California \$35,000 <i>For an experimental documentary entitled "Crossing Utah."</i>
		Honolulu Symphony Society, Hawaii \$30,000	Sadie Benning, Buffalo, New York \$35,000

For an experimental narrative
entitled "Girl Power."

Alan Berliner,
New York, New York
\$35,000

For an experimental documentary
entitled "The Mountain of Names."

Arlene Bowman,
Santa Monica, California
\$35,000

For a personal video journal entitled
"Crossing Over."

Juan Carlos Bustamante,
Santiago, Chile
\$35,000

For a video documentary entitled
"The Memory Keeper."

Gloria Camiruaga,
Santiago, Chile
\$35,000

For a video documentary which will
form part of an installation, entitled
"Mine Women."

Kathy High,
Brooklyn, New York
\$35,000

For a video combining narrative and
documentary elements entitled
"Substitute Families."

Leandro Katz,
New York, New York
\$35,000

For a film essay entitled "El Dia
Que Me Quieras (The Day You'll
Love Me)."

Sandra Kogut,
Rio de Janeiro, Brazil
\$35,000

For an experimental feature film
entitled "Lend Me Your Eyes."

Not Channel Zero/Black Planet
Productions,
Brooklyn, New York
\$35,000

For a documentary entitled "Not
Channel Zero's Grassroots Video
Cookbook."

Gregoria Rocha,
Mexico City, Mexico
\$35,000

For an experimental video document-
ary entitled "License Plates,
Virgins & Tattoos."

Marisa Sistach,
Tlalpan, Mexico

\$35,000
For a documentary entitled
"City of the Fragrant Heart."

Elia Suleiman,
New York, New York
\$35,000

For a narrative feature film entitled
"Wa Hakadha Tamurru 'L-Ayyam
(And So The Days Pass)."

Trinh T. Minh-Ha,
Berkeley, California
\$35,000

For an experimental narrative film
entitled "A Tale of Love."

Ela Troyana,
New York, New York
\$35,000

For an experimental performance
video entitled "The Cooking Show."

Martha Wallner,
New York, New York
\$35,000

For an experimental documentary
entitled "Sarah Laughed."

Japanese American Cultural and
Community Center,
Los Angeles, California
\$35,000

Toward the second year of the intercultural
performance series entitled
"Celebrate California."

La Red Latino Americana de
Productores Independientes de Arte
Contemporaneo,
Paraty, Brazil
[1992 - \$200,000]

To facilitate intracontinental interac-
tion among Latin American artists
and alternative organizations.

Lincoln Center for the Performing
Arts, Inc.,
New York, New York
\$100,000

In support of its Jazz Department's
1992-93 season of events.

Literary Managers and Dramaturgs
of America, Inc.,
New York, New York
\$20,000

In support of the National Theatre
Translation Fund project.

Meet the Composer, Inc.,
New York, New York
[1991 - \$150,000, in addition
to remaining funds from prior
year appropriations]
To enhance the role of jazz in 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.

\$5,000
In support of the "AIDS Quilt
Songbook - 1992" project/concert.

Miami Dade Community College,
Florida
\$34,600
To implement the International
Networks Project.

Mid-America Arts Alliance,
Kansas City, Missouri
\$60,000
Toward the second year of its New
Works commissioning program.

Multi-Arts Production Fund
[1992 - \$785,000, in addition
to remaining funds from prior
year appropriations]
To continue the Foundation's formal-
ized process for evaluating and
supporting proposals in the performing
arts that reflect the boldest and most
creative new work in intercultural
and/or international representation
(Projects are often funded at early
developmental stages and may evolve
over time.)

SELECTED IN 1992:

American Indian Community
House,
New York, New York
\$25,000
Toward the production of "One
People/Many Cultures," a series of
performances of Native American arts.

Arts Company,
Cambridge, Massachusetts
\$50,000
Toward the creation and production of
"The Boston Project" (working title),
a mixed-media theater work by
performance artist Robbie McCauley.

Bloomsburg Theatre Ensemble,
Pennsylvania
\$25,000

Toward the creation of "Under
African Skies" (working title), a
theater work based on African tribal
stories, developed collectively by
James Goode, David Moreland and
Dr. Mapopa Mtonga.

BRAVA! For Women in the Arts,
San Francisco, California
\$25,000
Toward the world premiere production
of "Arthur and Leila," a collaboration
between playwright Cherylene Lee,
composer Jon Jang and visual designer
Lauren Elder.

Brooklyn Academy of Music,
New York
\$25,000
Toward the commission and develop-
ment of a dance work by Indonesian
choreographer Sardono.

Capoeira Foundation,
New York, New York
\$25,000
Toward the creation and production of
"Pivete," a performance piece based
on the novel by Brazilian author Jorge
Amado, a collaboration with artistic
director Jelon Vieira, Brazilian chore-
ographer Marcel Moacyr and
composer Walter Queiroz.

Carpetbag Theatre,
Knoxville, Tennessee
\$25,000
Toward the development of a theatrical
production based on historical African-
American economic development.

Circle Repertory Company,
New York, New York
\$10,000
Toward the development and workshop
production of playwright Han Ong's
"Widescreen Version of the World."

Cultural Odyssey,
San Francisco, California
\$25,000
Toward the creation and production of
an interdisciplinary collaboration by
artistic director Rhodessa Jones,
actress Edris Cooper, storyteller
Teirrah McNair and director/actress
Ruby Dee entitled "Women Saving
Their Own Lives," working with
women in prisons.

Dance Theater Foundation/Alvin
Ailey American Dance Theater,

New York New York
\$25,000

Toward the creation and production of a collaborative theater/dance work by choreographer Judith Jamison and writer/actress Anna Deavere Smith

District Curators,
Washington, D C
\$35,000

Toward the Multworks Project which will commission and develop three new movement/theater/music works 'Mulanpi a musical dance/theater work by Dierdie Murray and Ajax Joe Drayton The E + O Line a blues/jazz opera by Thulani Davis and Anne LeBaron, and For J B Blondell Cummings dance/theater tribute to Josephine Baker with original music by Lester Bowie

Donald Byrd Dance Foundation,
New York, New York
\$35,000

Toward the creation and production of a dance/performance work entitled 'The Minstrel Show Acts for Coons Jigaboos and Jungle Bunnies'

Eugene O'Neill Memorial Theater
Center - The National Music
Theater Conference,
Waterford, Connecticut
\$25,000

Toward the second stage in development of the Marco Polo Project a multi-disciplinary work with text for full orchestra conceived by composer Ian Dun with lyrics and text by Paul Griffiths and conducted by Paulette Haupt

Foundation for Dance Promotion -
Bill T Jones/Arnie Zane & Co.,
New York, New York
\$35,000

Toward the creation and production of 'Still Here' a full-evening dance and music work developed by choreographer Bill T Jones with performers and other persons from the HIV/AIDS community

Foundation for Independent Artists,
New York, New York
\$25,000

Toward the creation and production of 'Ready' a performance work written and directed by David Rousseve

Friends of Davis Center/Aaron
Davis Hall,
New York, New York
\$35,000

Toward the development and performance of 'The Shadow Catchers' a new play by Judith Jackson with music by Craig Harris and 'My Darling Gracim' a play by Greg Tate with music by Butch Morris

June Watanabe in Company,
San Rafael, California
\$10,000

Toward the creation and production of 'A Room of Our Own' a multidisciplinary dance/theater collaboration by choreographer June Watanabe and composer Bun-Ching Lam

La Pena Cultural Center,
Berkeley, California
\$10,000

Toward the creation and production of 'Street Stories' a performance work by Brenda Wong Aoki

Miami Light Project
Miami Beach, Florida
\$25,000

Toward the commission and development of an original work by Culture Clash a California-based team of Chicano theater artists

Performing Artservices
New York, New York
\$25,000

Toward the development and production of 'A Miracle of Cars' a multi-media stage work conceived by composer/director Robert Ashley in collaboration with members of Low Rider car clubs in the American Southwest

Reich Music Foundation,
New York, New York
\$35,000

Toward the final pre-production costs for 'The Cave' a documentary music/theater work by composer Steve Reich and video artist Beryl Korot

San Francisco Mime Troupe,
California
\$35,000

Toward a collaboration between Mime Troupe members Joan Holden Bruce Barthol and Dan Chunley with Maribel Legarda a playwright from the Philippine Educational Theater Association Chung Chao a playwright from the Taiwan Peoples Cultural Workshop Mok Chu Yu a playwright from the Hong Kong Peoples Theater and Keiko Takeya a choreographer from the Black Tent Theater in Tokyo

Seven Stages,
Atlanta, Georgia
\$35,000

Toward the commission and production of five new plays by Southeastern writers Valetta Anderson Jo Carson Jim Grunsley Julie Hebert and Robert Earl Price and the full production of one of the five works

Tara Arts Group Limited,
London, England
\$25,000

Toward the research and development phase of 'The Odyssey An Asian Songline' directed and adapted by Jatinder Verma designed by Magdalen Rubalcava and Richard Rogers, with a cast of Aboriginal and Asian actors from Britain Japan and Australia

El Teatro Campesino,
San Juan Bautista, California
\$25,000

Toward the development and production of 'El Baile de los Gigantes' a theatrical interpretation of the creation myth of the Chorti Maya as taken from 'El Popol Vuh, The Book of the People'

El Teatro de la Esperanza,
San Francisco, California
\$10,000

Toward the production of a new theater work entitled 'Rosita's Traveling Jalapeno Kitchen' written by artistic director Rodrigo Duarte-Clark for actress/storyteller Ruby Nelda Perez

Urban Bush Women,
New York, New York
\$35,000

Toward the creation and production of 'Lifedance III The Empress (Womb Wars)' conceived and performed by choreographer/director Javole Willa Jo Zollar and designed by Helen Oji

Walker Art Center,
Minneapolis, Minnesota
\$10,000

Toward the co-commission and presentation of 'The Heart in Exile' a collaboration with playwright Neil Barlett composer Nicholas Bloomfield and choreographer Leah Hausman in association with On the Boards in Seattle and Dance Theater Workshop in New York City

World Music Institute,
New York, New York
\$25,000

Toward the commission and production of a music and dance collaboration between Ghanaian master drummer/composer/choreographer Yacub Addy master kora player and griot Foday Musa Suso and Odadaa' a Washington D C music and dance ensemble

Foundation-administered project
\$35,000
Toward administrative costs

National Association of
Artists' Organizations,
Washington, D C
\$30,000

Toward the costs of its eighth conference held in Austin on October 8-12 1992 which focused on new and emerging art in the Americas and for the first time involved foreign participants

National Cultural Alliance,
Washington, D C
\$17,500

Toward its national campaign for expanding public awareness of the critical role of the arts and humanities in the US (Also listed under the division's guideline Extending International and Intercultural Scholarship)

National Hispanic Media Institute
(National Latino Arts, Education
and Media Institute),
Los Angeles, California
\$50,000

Toward post-production expenses associated with a television adaptation of the play 'A Bowl of Beings' in collaboration with Esparza/Katz Productions

National Jazz Service Organization
(NJSO),
Washington, D C
\$30,000

Toward support of the NJSO Journal

National Public Radio,
Washington, D C
\$50,000

For production of 'The Cultural Desk' a documentary radio project focusing on contemporary American cultural issues

National Video Resources Program
[1992 - \$1,000,000 in addition
to remaining funds from prior
year appropriations]

To increase public access through
videocassette to outstanding cultural
educational and documentary film
and video materials

Cinema Specialties, Inc.,
New York, New York
\$4,500

To identify the obstacles that may
prevent trade and mainstream presses
from reviewing independent work
entering the home video market

Foundation for Independent Video
and Film, Inc.,
New York, New York
\$22,000

Toward the publication of a directory
of video and film on videocassette
made by Latin American and US
Latino independent producers

National Video Resources, Inc.,
New York, New York
\$1,036,129

To enable the newly independent orga-
nization to continue programs which
will increase public access through
videocassette to outstanding cultural,
educational, and documentary film
and video materials

New Video Group,
New York, New York
\$76,675

Toward the packaging and promotion
of the home-video release of a black
film collection

New York University,
New York
\$50,000

Toward a Media Alternative Project
to develop selection criteria and
recommended titles of independent
multicultural works for use within
academic disciplines

Foundation-administered project
\$350,000
For administrative expenses

Network of Cultural Centers
of Color,
New York, New York
\$100,000

Toward its 1992 direct costs of
production and touring

New York Foundation for the Arts,
New York
\$2,000

In support of its arts-information
computer communication system,
Arts Wire

Non-Traditional Casting Project,
New York, New York
\$50,000

To implement the online computer
system, Artist Files Online

Pan African Orchestra,
Accra-North, Ghana
\$3,000

Toward support of its 1992 touring
series of concerts for youth in various
parts of Africa

People's Theatre Coalition
(Life on the Water),
San Francisco, California
\$25,000

Toward its new program of international
artistic dialogue, the Free Idea Zone

Perseverance Theatre,
Douglas, Alaska
\$35,000

Toward phase III of the establishment
of its multicultural company

Relâche, Inc.,
Philadelphia, Pennsylvania
\$18,625

In support of a Philadelphia Latino
composers project

Resolution, Inc.,
(California Newsreel),
San Francisco, California
\$50,000

For the African Cinema Week
Celebrations

Theatre Communications Group,
New York, New York
\$54,275

To support its international programs

U S -Mexico Fund for Culture,
Mexico City, Mexico

[1992 - \$400,000 in addition
to remaining funds from prior
year appropriations]

To continue a program of support for
collaboration, exchange and interac-
tion between US and Mexican artists
and scholars

Walker Art Center,
Minneapolis, Minnesota
\$50,000

To establish a multidisciplinary
Extended Residency Program

Women's Philharmonic,
San Francisco, California
\$30,000

Toward phase II of the National Women
Composers Resource Center/Latin
Women Composers Project

Equal
Opportunity Grants

THE EQUAL OPPORTUNITY DIVISION seeks to assure full participation of minorities in American life. In attacking persistent poverty in urban America, it supports activities in four categories: programs of planning and action in a few selected cities, national initiatives for community economic development, research and policy analysis, and research and action to strengthen basic skills and family support. To protect basic rights, the division supports litigation and advocacy, voter registration and education, and related research and policy analysis.

EQUAL OPPORTUNITY
FOR THE URBAN POOR

American Jewish Committee,
New York, New York
\$36,000
Toward the costs of a conference entitled "Fighting Poverty: The Challenge to the Jewish Community"

The Carter Center,
Atlanta, Georgia
[1992 - \$250,000]
To document and evaluate the community-action and fund-raising strategies that The Atlanta Project (TAP) is using in its large-scale effort to combat persistent poverty in Atlanta, so that the information is available to other cities for possible replication.

Center on Budget and Policy
Priorities,
Washington, D.C.
[1992 - \$250,000, in addition
to remaining funds from prior
year appropriations]
*To continue support for the Center's
policy analysis on state and local govern-*

*ment budgets and the safety net programs
for low-income families and individuals.*

[1992 - \$250,000, in addition
to remaining funds from prior
year appropriations]
*To continue support for its policy
analysis of government budgets and
policy innovations*

Children's Defense Fund,
Washington, D.C.
[1992 - \$500,000]
*To continue the organization and
implementation of a ten-year Black
Community Crusade for Children.*

[1992 - \$500,000]
*To continue core support for its efforts to
improve public policies affecting children.*

Children Now,
Oakland, California
[1992 - \$400,000, in addition
to remaining funds from prior
year appropriations]
*To expand its use of mass communica-
tion techniques and other programmatic
efforts for informing California's general
public and policymakers about issues that
directly affect the state's children, particu-
larly those who are poor or at-risk*

Coalition of Community
Foundations for Youth,
Boston, Massachusetts
[1992 - \$520,000]
*To strengthen the role of community
foundations in improving local services
and public policies for children.*

Arizona Community Foundation,
Phoenix
\$20,000
*Toward the costs of an evaluation of
a multi-year project, "Partnership for
Children," to design a comprehensive
and integrated system of statewide
services in Arizona for vulnerable
children and families.*

Greater Kansas City Community
Foundation,
Missouri
\$500,000
*To provide technical assistance to
community foundations engaged in
intensifying their efforts - locally and
collectively - to improve the conditions
of disadvantaged children.*

Community Partnership for the
Prevention of Homelessness,
Washington, D.C.
\$25,000
*Toward the costs of establishing a
network of neighborhood-based
partnerships in Washington, D.C.*

Community Planning and Action
[1992 - \$1,625,000, in addition
to remaining funds from prior
year appropriations]
*To continue support, at a reduced
level, for the operation in six cities
of planning and action projects dedi-
cated to reducing persistent poverty.*

Boston Foundation,
Massachusetts
\$220,000
In support of its project dedicated

*to reducing persistent poverty in
the Boston area.*

Case Western Reserve University,
Cleveland, Ohio
\$225,000
*In support of its project dedicated to
reducing persistent poverty.*

Greater Washington Research
Center,
Washington, D.C.
\$105,000
*For analysis of the 1990 Census
data and implementation of a local
outreach campaign concerning the
1992 Earned Income Tax Credit.*

\$300,000
*In support of its project dedicated to
reducing persistent poverty.*

Partnership for Hope,
San Antonio, Texas
\$15,400
*Toward the costs of a local outreach
campaign concerning the 1992 Earned
Income Tax Credit.*

\$350,000
*In support of its project dedicated
to reducing persistent poverty.*

Piton Foundation,
Denver, Colorado
\$19,800
*For analysis of the 1990 Census
data and implementation of a local
outreach campaign concerning the
1992 Earned Income Tax Credit.*

\$300,000
*In support of its project dedicated to
reducing persistent poverty.*

Urban Strategies Council,
Oakland, California
\$13,000
*Toward the costs of a local outreach
campaign concerning the 1992 Earned
Income Tax Credit.*

<p>\$350,000 In support of its project dedicated to reducing persistent poverty</p>	<p>community-Based Economic Development Through Self-Employment in District Neighborhoods and Design of a Self-Employment Pilot Program</p>	<p>behavior of ethnic groups in welfare employment programs</p>	<p>To provide operational support for the NCDI</p>
<p>Council for Community-Based Development Washington, D C \$4,000 Toward its general operations</p>	<p>Harvard University Cambridge, Massachusetts \$100,000 Toward the cost of a study entitled <i>Nurturing Environments in African-American Communities Learning and Socio-Economic Development</i></p>	<p>Minority Female Single Parent Program (MFSP), [1990 - \$700,000 in addition to remaining funds from prior year appropriations] To complete evaluation research of the Minority Female Single Parent Program and dissemination of the research findings</p>	<p>Local Initiatives Managed Assets Corporation (LIMAC), New York, New York \$279,000 To provide operational support for the NCDI</p>
<p>Development Training Institute Baltimore, Maryland \$30,000 Toward the costs of a project entitled <i>Towards a Methodology Addressing the Human Resources Crisis in Community Development Corporations'</i></p>	<p>Human Capital [1991 - \$275,800 in addition to remaining funds from prior year appropriations] To develop a cohort of young, minority scholars concerned with public policy analysis and the study of persistent poverty and the underclass</p>	<p>Foundation-administered project \$271,940 Toward the costs of administering evaluating and monitoring the MFSP program and disseminating the findings</p>	<p>Local Initiatives Support Corporation (LISC), New York, New York \$145,500 To provide operational support for the NCDI</p>
<p>Enterprise Foundation, Columbia, Maryland [1991 - \$150,000 in addition to remaining funds from prior year appropriations] To continue support for its effort to develop nonprofit systems for improving housing and human and community services in low-income neighborhoods</p>	<p>University of Minnesota, Minneapolis \$78,993 To develop a cohort of young, minority scholars concerned with public policy analysis and the study of persistent poverty and the underclass</p>	<p>Morehouse College, Atlanta, Georgia [1992 - \$200,000 in addition to remaining funds from prior year appropriations] To support development of the Morehouse Research Institute (MRI) as an interdisciplinary center that generates and disseminates policy-relevant research and information on African-American men</p>	<p>National Council of La Raza, Washington, D C [1992 - \$260,000, in addition to remaining funds from prior year appropriations] To continue support for its Policy Analysis Center and Poverty Project and to help it conduct a capital campaign feasibility study (Also listed under the division's second guideline: <i>Protecting Basic Rights</i>)</p>
<p>Expanded Child Care Options [1990 - \$2,100,000 in addition to remaining funds from prior year appropriations] To amend prior support for a multi-year demonstration and evaluation of two alternative child care support systems for low-income families applying funds remaining toward restarting the project with the US Department of Health and Human Services</p>	<p>Joint Center for Political and Economic Studies, Washington, D C [1992 - \$260,000 in addition to remaining funds from prior year appropriation] To continue support for its policy-analysis and dissemination activities on issues of persistent poverty and the underclass</p>	<p>National Academy of Public Administration, Washington, D C \$5,000 Toward the costs of disseminating a summary of the proceedings of its June 1992 conference <i>Reinventing Government: New Approaches and New Alliances</i> held in Atlanta</p>	<p>National Hispanic Leadership Agenda, Washington, D C \$25,000 To promote public awareness of Hispanic issues</p>
<p>Foundation-administered project \$850,000 For management research and planning costs</p>	<p>Local Initiatives Support Corporation (LISC), New York, New York [1992 - \$250,000 in addition to remaining funds from prior year appropriations] To pay a portion of LISC's core management expenses</p>	<p>National Community Development Initiative (NCDI) [1991 - \$656,500 in addition to remaining funds from prior year appropriations] To continue support for NCDI a funders consortium created to catalyze strategic growth in the resources available for local community development corporation activities in selected cities (Program-related investments totaling \$9,000,000 have been made to LISC, LIMAC and the Enterprise Foundation under the NCDI program beginning in 1990)</p>	<p>National Puerto Rican Coalition, Washington, D C \$100,000 Toward the costs of establishing an Office of Research Advocacy and Policy Analysis</p>
<p>Georgetown University Law Center, Washington, D C \$25,000 In support of its project on child poverty to be conducted in the setting of a family homelessness prevention clinic</p>	<p>Manpower Demonstration Research Corporation, New York, New York \$100,000 Toward the costs of follow-up research on the JOBSTART Demonstration Project</p>	<p>Enterprise Foundation, Columbia, Maryland \$232,000</p>	<p>New School for Social Research New York, New York [1992 - \$200,000] To support its study of the social and behavioral effects produced by selected community development corporations (CDCs) in the low-income neighborhoods where they operate</p>
<p>Greater Washington Research Center Washington, D C \$5,000 Toward the cost of a project entitled <i>Evaluation of Prospects for Com-</i></p>	<p>\$20,000 Toward the cost of a study on the</p>		<p>Program to Explore Long-Term Implications of Changing Gender Roles [1988 - \$800,000 in addition to remaining funds from prior year appropriations] To further understanding of the relationship between changing gender</p>

roles and new patterns of family life and work in postindustrial societies.

Foundation-administered project
\$4,796

Toward completion of dissemination products, including consultant costs for "The Implications of Changing Gender Roles in Post-Industrial Societies."

Quasi-Military Youth Corps
[1992 - \$110,000]

To permit orderly conclusion of research on the design of the quasi-military domestic service corps for school dropouts.

Center for Strategic and International Studies (CSIS), Washington, D.C.
\$50,000

To permit orderly conclusion of its research on the design of a quasi-military domestic service corps for school dropouts.

Public/Private Ventures, Philadelphia, Pennsylvania
\$60,000

To permit orderly conclusion of its research on the design of a quasi-military domestic service corps for school dropouts.

Research Foundation of CUNY, New York, New York
\$100,000

Toward the cost of the Latino Urban Policy Initiative.

Michael Sherraden, Washington University, St. Louis, Missouri
\$25,000

For research and preparation of a book-length manuscript on the history, policies, operations, and effects of the Central Provident Fund of Singapore.

Social Science Research Council (SSRC), New York, New York
[1992 - \$500,000 in addition to remaining funds from prior year appropriations]

To continue support for the SSRC's five-year program to mobilize the academic community for interdisciplinary research on the underclass

[1992 - \$625,000]
To provide final support for the SSRC's

final fellowship and training program aimed at developing a cohort of younger scholars concerned with the study of persistent poverty and the underclass.

Surdna Foundation, New York, New York
\$100,000

Toward the establishment of a Comprehensive Community Revitalization Program in the South Bronx, New York City.

Texas Interfaith Education Fund, Austin
\$33,000

For staff personnel to enhance its "Job Training Research and Planning Project."

Tomás Rivera Center, Claremont, California

[1992 - \$250,000, in addition to remaining funds from prior year appropriations]

To continue support for its studies of economic, social, and political conditions in targeted Latino areas of Texas

Twentieth Century Fund, New York, New York
\$30,000

Toward the costs of its project sponsoring research and the writing of a book on policies that have led to improved race relations in the armed forces, and their general applicability to the larger society.

University of Chicago, Illinois
[1992 - \$600,000]

To support the policy development activities of its new Center for the Study of Urban Inequality.

University of Massachusetts, Lowell
\$50,000

Toward the cost of a study entitled "Employers, Hiring, and Urban Inequality: A Multi-City Interview Study"

University of Texas, Austin
\$16,560

Toward the costs of a project entitled "Agenda '92. The Children of San Antonio."

Urban Institute, Washington, D.C.
[1992 - \$200,000]

To support a test for employment discrimination on the basis of race and ethnicity in Los Angeles, California.

[1992 - \$680,000]

To continue support for its policy research on the urban underclass and dissemination of the findings to policymakers, community leaders, and the media.

[1992 - \$200,000 in addition to remaining funds from prior year appropriations]

To complete a multi-year analysis of the dynamics of growth and poverty in San Antonio, Texas.

Urban Strategies Council, Oakland, California

[1992 - \$350,000, in addition to remaining funds from prior appropriations]

To coordinate joint activities by the Foundation-supported community planning and action projects on (1) wider information-sharing, (2) organization of a national network for urban change, and (3) synthesis of knowledge about persistent poverty and the urban underclass.

\$25,000

To support national network activities and communications.

Woodrow Wilson National Fellowship Foundation, Princeton, New Jersey

[1992 - \$600,000, in addition to remaining funds from prior year appropriations]

To enlarge the supply of minority scholars trained for the field of public policy management.

Foundation-administered projects
\$40,000

Toward costs of a series of Foundation-sponsored roundtables on labor market policies to aid disadvantaged Americans.

\$100,000

Toward the costs of testing communications strategies for promoting understanding of persistent urban poverty in America.

\$9,300

For a conference of the Community Planning and Action Projects to discuss strategies and the development of a national network of comprehensive, community-based initiatives.

PROTECTING BASIC RIGHTS

Association of Black Foundation Executives, Washington, D.C.
\$25,000
Toward the cost of its general operating expenses.

California Community Foundation, Los Angeles
\$100,000

To support the work of the Multi-Cultural Collaborative, a group of organizations established as a collective response to the Los Angeles riots.

Citizens' Commission on Civil Rights, Washington, D.C.
\$25,000

Toward the costs of publishing and distributing a study of the Bush Administration's civil rights record for the period 1991-1992.

Civil Rights Litigation Organizations
[1991 - \$750,000]

\$500,000 To support the NAACP Legal Defense and Education Fund, and to provide technical assistance to three civil rights litigation groups that have received Foundation stabilization grants.

Lawyers' Committee for Civil Rights Under Law, Washington, D.C.
\$70,000

Toward the costs of implementing additional fundraising strategies.

Mexican American Legal Defense and Educational Fund, (MALDEF), Los Angeles, California
\$70,000

Toward the costs of its direct mail fundraising campaign.

NAACP Legal Defense and Educational Fund, New York, New York

\$50,000 <i>Toward the costs of computerizing its scholarship and fundraising programs</i>	Center for Constitutional Rights, New York, New York \$15,000 <i>In support of its Voting Rights Project</i>	<i>Toward the costs of providing technical assistance for redistricting and reapportionment efforts, as well as continuing voting rights litigation</i>	<i>Toward the cost of start-up activities of the Consortium</i>
Puerto Rican Legal Defense and Education Fund, (PRLDEF), New York, New York \$60,000 <i>To enable it to acquire technical assistance with its fundraising, communications and strategic planning needs</i>	Institute for Puerto Rican Policy, New York, New York \$15,000 <i>In support of its redistricting project</i>	Southern Regional Council, Atlanta, Georgia \$60,000 <i>Toward the costs of providing technical assistance for redistricting and reapportionment efforts as well as continuing voting rights litigation</i>	National Council of La Raza, Washington, D C [1992 - \$490,000, in addition to remaining funds from prior year appropriations] <i>To continue support for its Policy Analysis Center and Poverty Project and to help it conduct a capital campaign feasibility study (Also listed under the division's first guideline, Equal Opportunity for the Urban Poor)</i>
Fair Employment Council of Greater Washington, Washington, D C \$50,000 <i>Toward the costs of operating a central clearinghouse for information on testing for employment discrimination</i>	Lawyers' Committee for Civil Rights Under Law, Washington, D C \$55,000 <i>To provide further technical assistance for redistricting and reapportionment efforts as well as continuing voting rights litigation</i>	\$30,000 <i>In support of its Electoral Participation Project</i>	National Housing and Community Development Law Project, Berkeley, California \$10,000 <i>Toward the costs of a conference on legal remedies that assist residents of public and other government-assisted housing</i>
Hispanics in Philanthropy, Berkeley, California \$25,000 <i>Toward its general operating expenses</i>	Leadership Conference Education Fund, Washington, D.C \$15,000 <i>Toward the costs of providing technical assistance for redistricting and reapportionment efforts, as well as continuing voting rights litigation</i>	Southwest Voter Registration Education Project, San Antonio, Texas \$50,000 <i>Toward the costs of providing technical assistance for redistricting and reapportionment efforts, as well as continuing voting rights litigation</i>	National American Rights Fund, Boulder, Colorado [1992 - \$325,000] <i>To continue support for the advocacy, litigation, and technical assistance activities of its Human Rights Project</i>
Joint Center for Political and Economic Studies, Washington, D C [1992 - \$450,000, in addition to remaining funds from prior year appropriations] <i>To continue support for the work of its Policy Analysis Division on issues of particular importance to black Americans</i>	Mexican American Legal Defense and Educational Fund (MALDEF), Los Angeles, California \$60,000 <i>In support of its voting rights litigation program, including redistricting litigation</i>	Southwest Voter Research Institute, San Antonio, Texas \$35,000 <i>Toward the costs of providing training and technical assistance for local-level redistricting efforts</i>	Poverty and Race Research Action Council, Washington, D C [1992 - \$500,000, in addition to remaining funds from prior year appropriations] <i>To continue support for its networking, conferencing, and commissioning of advocacy-driven, social science research on race and poverty issues</i>
\$50,000 <i>Toward the costs of the Sixth National Policy Institute</i>	Midwest/Northeast Voter Registration Education Project, Chicago, Illinois \$40,000 <i>In support of its activities, including a survey of the status of redistricting in selected states</i>	NAACP Legal Defense and Education Fund, Inc., New York, New York [1992 - \$250,000, in addition to remaining funds from prior year appropriations] <i>To continue support for its litigation activities</i>	\$33,000 <i>Toward the cost of an evaluation of its administrative and management operations</i>
Lawyers' Committee for Civil Rights Under Law, Washington, D.C [1992 - \$1,000,000] <i>To support the Committee's litigation activities, stabilize its financial base, and provide technical assistance for its fund-raising efforts</i>	NAACP Special Contribution Fund, Baltimore, Maryland \$40,000 <i>In support of NAACP activities focused on evaluating state redistricting plans and, where necessary, instituting legal challenges to the plans</i>	NAACP Special Contribution Fund, New York, New York [1992 - \$350,000, in addition to remaining funds from prior year appropriations] <i>To continue support for the NAACP's employment litigation activities</i>	Rocky Mountain Women's Institute, Denver, Colorado \$3,470 <i>Toward the costs of a research project, "Women on Trial"</i>
Minority Voter Participation [1992 - \$500,000] (1) <i>To enable selected organizations to provide further technical assistance for redistricting and reapportionment efforts, as well as continue voting rights litigation, and (2) to support training that will increase the supply of minority professionals with voting rights expertise</i>	Norfolk State University Foundation, Virginia \$15,000 <i>In support of the university's training efforts to increase the supply of minority professionals with voting rights expertise</i>	\$25,000 <i>Toward the costs of its Capital Punishment Project</i>	Foundation-administered project \$88,530 <i>For costs associated with the Foundation's exploration of what strategies will best help to secure and protect the basic rights of minority Americans in the decade ahead</i>
	Puerto Rican Legal Defense and Education Fund (PRLDEF), New York, New York \$50,000	\$40,000 <i>Toward the cost of the Executive Search Committee</i>	
		National Asian Pacific American Legal Consortium, San Francisco, California \$50,000	

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.

California School Boards Foundation,
West Sacramento
\$30,000

Toward the costs of a conference entitled "Celebrating Opportunities for Hispanic Students: Strategies for Success," held March 20-22, 1992, in San Diego. (Joint grant with Special Interests and Explorations, for a total of \$60,000.)

Collaboratives for Humanities and Arts Teaching (CHART)

[1992 - \$2,315,000, in addition to remaining funds from prior year appropriations]

To continue support for the national CHART network of teacher-centered projects that promote arts and humanities education and are bringing about system-wide curricular reforms

Bryn Mawr College, Pennsylvania
\$575,000

Toward continued administration, evaluation and programming of the CHART network.

Connecticut Humanities Council,
Middletown
\$225,000

In support of the work of the Connecticut Humanities Alliance toward accelerated implementation of the CHART curricula in Hartford public schools.

Dade Community Foundation,
Miami, Florida

\$50,000

In support of the 1992-93 Dade County Public Schools' Teacher Education Center Humanities Project, "Inhabiting Other Lives."

Hispanic Culture Foundation,
Albuquerque, New Mexico
\$175,004

In continuing support of the New Mexico CURRENTS program.

International Education Consortium,
St. Louis, Missouri
\$150,000

For continuation of its teacher training program to strengthen international education in St. Louis secondary schools.

Michigan Council for the Humanities,
East Lansing
\$125,000

In support of its Renaissance Outreach Alliance for the Detroit-area Schools (ROADS) program, which includes teacher-centered curricular reform focused on the cultures of African American, Arab American, and Hispanic students.

PATHS/PRISM: The Philadelphia Partnership for Education,
Pennsylvania
\$105,000

For completion of its project to revise the world history curriculum used in the Philadelphia public schools.

Public Education Coalition,
Denver, Colorado
\$150,000

In continued support of the SUMMIT (Scholars United for Multicultural Inquiry in Teaching) initiative in the Denver area public schools.

San Francisco Education Fund,
California
\$175,000

Toward Continuation of the Humanities, Education, Research, and Learning Development (HERALD) project

Smithsonian Institution,
Washington, D.C.
\$50,000

To conclude the work of the Washington, D.C. Superintendent's Academy for the Humanities.

South Carolina Committee for the Humanities,
Columbia
\$200,000

In support of the Rural Education Alliance for Collaborative Humanities (REACH) program.

University of Arkansas at Little Rock
\$175,000

For use by its Arkansas International Center in continuing an interdisciplinary teacher training program in global education.

Foundation-administered project
\$39,000

Toward the costs of disseminating the CHART network's experience.

College Board,
New York, New York
[1992-\$2,000,000]

To prepare at-risk minority students in middle schools to complete academically challenging mathematics courses, particularly those needed for college enrollment and employment.

Community Foundation of Greater Washington,
Washington, D.C.
\$2,500

Toward production and distribution costs of a public service video entitled "Stop the Violence," produced by the National Center for Gang Policy.

Council on Foundations,
Washington, D.C.
\$5,000

For use by Grantmakers for Children, Youth and Families for its 1992 activities.

\$10,000

Toward support of its Precollegiate Education program.

Council of the Great City Schools,
Washington, D.C.
\$35,500

Toward the cost of printing the publication National Urban Education Goals: Baseline Indicators, 1990-91.

Fund for Public Schools, Inc.,
Brooklyn, New York
\$25,000

For use by the Latino Commission on Educational Reform created by the New York City Board of Education in 1991.

Edmund W. Gordon, administered by the Children's Defense Fund,
Washington, D.C.
\$53,500

Toward support of a study of school disengagement/reengagement among African-American male adolescents.

Greater Kansas City Community Foundation,
Missouri

<p>\$36,000 To develop and implement a plan whereby the Coalition of Community Foundations for Youth can effectively leverage resources available through national foundations and other national organizations</p>	<p>in predominantly black school systems during the decade of the 1990s</p>	<p>For use by the Yale Child Study Center in spreading the Comer School Development Program and philosophy</p>	<p>[1992 - \$300,000, in addition to remaining funds from prior year appropriations] To equip educators to meet the challenge of managing schools that serve at-risk children</p>
<p>Harvard University, Cambridge, Massachusetts [1992 - \$510,000] To continue support for a multi-site demonstration and evaluation of new modes of student assessment</p>	<p>Rutgers University, Newark, New Jersey \$37,000 For use by its Center for Educational Policy Analysis in New Jersey in conducting a study on the effects of the Quality Education Act on at-risk children in New Jersey</p>	<p>Foundation-administered projects \$75,000 For continuation of the marketing campaign for the video series based on the Comer School Development Program</p>	<p>Council for Basic Education, Washington, D C \$9,900 Toward the costs of publishing in its quarterly journal, <i>Perspective</i>, an article on the two school leadership academies developed and implemented by the Michigan Partnership for New Education</p>
<p>Institute for Educational Leadership, Washington, D C \$100,000 For use by a consortium composed of the Institute for Educational Leadership the McKenzie Group, and the Joint Center for Political and Economic Studies toward continued support of a national training program for emerging and nontraditional school superintendent candidates.</p>	<p>Spreading the Comer School Development Program and Philosophy [1992 - \$1,600,000, in addition to remaining funds from prior year appropriations] To expand the number of public schools utilizing the school improvement approach developed by Dr James Comer and to expose higher education institutions and education policymakers to his philosophy</p>	<p>\$1,075 For one-time costs associated with preparing discussion segments of the Comer School Development Program video series</p> <p>\$21,832 Toward the costs of two workshops held March 27 and April 3 1992, in New Orleans on the Comer School Development Program and the instructional video series about its implementation</p>	<p>Michigan State University, Ann Arbor \$256,000 In support of the School Leadership Academy of the Michigan Partnership for New Education</p>
<p>Michigan State University, East Lansing \$100,000 For use by the Holmes Group toward continued support of the project 'Tomorrow's Graduate Schools of education Curriculum Quality and Social Responsibility'</p>	<p>Connecticut Public Broadcasting, Inc., Hartford \$10,100 To meet its costs in serving as presenting station for national public television distribution of the documentary on the life of James P. Comer 'The Legacy of Maggie's American Dream'</p>	<p>\$20,000 For costs of enabling a U.S. delegation representing Dr. Comer's School Development Program to attend a conference on school improvement, held at the University of London, England, October 9-11, 1992</p>	<p>Southern Education Foundation, Atlanta, Georgia \$300,000 In support of the Richmond (Virginia) School Leadership Academy</p>
<p>National Urban League, New York, New York \$100,000 In final support for its Community Mobilization for Education Project</p>	<p>District of Columbia Public Schools, Washington, D C \$52,000 Toward the costs of its 1992 Summer Institute on the Comer process</p>	<p>\$100,000 For costs of the campaign to bring Dr. Comer's philosophy and work to the attention of U.S. education policymakers and opinion leaders</p>	<p>University of New Mexico, Albuquerque \$314,480 In support of the New Mexico Academy for School Leaders</p>
<p>New York Community Trust/Community Funds, Inc., New York \$10,000 Toward the costs of developing a plan for reform of the New York City public school system especially its governance structure</p>	<p>New Orleans Public Schools, Louisiana \$42,000 In support of its partnership with Southern University at New Orleans for implementing the Comer School Development Program and improving pre-service teacher preparation at the university</p>	<p>\$1,630 For the costs of nationally advertising the Comer School Development Program video series in Education Week</p>	<p>Urban Strategies Council, Oakland, California \$75,000 In support of the work of the Commission for Positive Change in the Oakland Public Schools</p>
<p>Research Foundation of the City University of New York, New York \$48,000 For use by Hunter College, toward costs of convening a retreat for selected black school superintendents to formulate strategies for school improvements</p>	<p>Southern University at New Orleans, Louisiana \$108,000 In support of its partnership with the New Orleans Public Schools for implementing the Comer School Development Program and improving pre-service teacher preparation at the university</p>	<p>Texas Interfaith Education Fund, Austin [1992 - \$600,000, in addition to remaining funds from prior year appropriations] To accelerate the pace of local school reform by strengthening the capacity of parents and community organizations to act as catalysts for change</p>	<p>Vanderbilt University, Nashville, Tennessee \$15,000 For use by the Center for Education and Human Development Policy for support of state leadership seminars on educational reform bringing research to policy and practice through telecommunications</p>
	<p>Yale University, New Haven, Connecticut \$520,570</p>	<p>\$1,500 In support of attendance at a University of Houston conference, "Hope for America's Schools" held September 12-13, 1992</p>	<p>Foundation-administered projects \$3,500 For costs associated with a meeting of nationally recognized school reform leaders held June 18-19, 1992, in Chicago</p>
		<p>Training Education Leaders to Improve At-Risk Schools</p>	<p>\$19,000 For costs of compiling a directory of the fellows who participated in the school</p>

principal and superintendent training programs that the Foundation sponsored in the 1970s and 80s under its minority leadership training initiative.

\$35,000

Toward the costs of developing and testing a "Children's Impact Statement."

\$27,300

For preparation, facilitation, and follow-up costs for a conference entitled "A Second Renaissance: ReThinking Education," held February 20, 1992, in New York City.

\$13,500

For the costs of a roundtable on educator professional development, held June 4-5, 1992, in New York City.

\$2,300

Toward administrative and production costs relating to the Comer video series.

Bellagio Study and
Conference Center

THE FOUNDATION'S BELLAGIO Study and Conference Center on Lake Como, Italy annually hosts approximately 30 conferences, almost half of which are selected competitively; the other half are organized by Foundation officers or grantees. These conferences are focused on topics of international importance. In addition, the Center hosts approximately 140 residents a year, also competitively selected, who come from around the world for periods of about four weeks and whose projects are expected to advance the individuals' fields of specialization.

Conferences

AGRICULTURAL
AND ENVIRONMENTAL
SCIENCES

Managing the Transition to a Global Climate Change Regime (January 27 to 31) - Abram Chayes, Harvard Law School, and Eugene B. Skolnikoff, Massachusetts Institute of Technology, both of Cambridge, Massachusetts
Leading national delegates from the global climate change negotiations, academicians, members of non-governmental organizations, and officials from the United Nations coordinating UNCED drafted a policy statement outlining the necessity, structure and procedure for a successful transition institution which was made available to all delegations attending UNCED in 1992.
Further information: Dr Eugene B. Skolnikoff, MIT, Cambridge, Massachusetts 02139 USA

Pesticides, Environment, and Health (March 30 to April 3) - Robert W.

Herd, Rockefeller Foundation
Health, environment, and production specialists from the Philippines, Ecuador, Thailand, Uganda, and the United States who are studying the effects of agricultural pesticides on smallholder developing-country agricultural systems exchanged experiences on the methodologies being used in several research efforts to collect and analyze data.
Further information: Dr. Herdt at the Foundation

Agricultural Sciences Staff Meeting (April 3 to 6) - Robert W. Herdt, Rockefeller Foundation
Field staff and New York staff reviewed a grant procedures manual and discussed the potential contribution agricultural modeling by grantees might make to furthering the goals of the Foundation.

Ethical Considerations in Agricultural Research (April 6 to 10) - Robert W. Herdt and Alberta B. Arthurs, both of the Rockefeller

Foundation, and David R. MacKenzie, National Biological Impact Assessment Program, United States Department of Agriculture, Washington, D.C.
Participants explored concepts and principles pertaining to socio-ethical choices in contemporary agricultural science research, using biotechnology topics as a frame of reference.
Further information: Dr. Arthurs at the Foundation

Review of the Collaborative Study on Greenhouse Gas Emissions of Asia and Brazil (April 20 to 24) - R. K. Pachauri, Tata Energy Research Institute, New Delhi, India
Participants in this follow-up meeting to a November 1990 Bellagio conference reviewed the progress of research activities at various constituent institutes and prepared a synthesis report on each country regarding present and future emission levels, options for limiting emissions, and a clear picture of the resources that would be required to implement these options. The report was submitted to the 1992 UNCED meeting in Brazil as well as to other international organizations.
Further information: R. K. Pachauri, Director, Tata Energy Research Institute, 9, Jor Bagh, New Delhi 110003, India

People, Parks and Participation: Creating Effective Linkages (August 24 to 28) - Katrina Brandon and Michael Wells, both of Washington, D.C.
Experts on rural development, government officials responsible for conservation programs, Integrated Conservation-Development Projects staff, NGO and donor representatives, and influential conservationists who develop

training programs for park managers discussed how to develop the necessary links between conservation and development objectives and made recommendations for future activities and research resources.

Further information: Ms. Katrina Brandon, 4110 Gallatin Street, Hyattsville, Maryland 20781 USA

Ethics and Agricultural Development (October 8 to 11) - Alberta Arthurs, Rockefeller Foundation

A small group discussed the feasibility of creating a pilot effort to educate humanists and "soft" social scientists about the consequences of agricultural development in the developing world in order that they might apply their cultural/ethical expertise more usefully.
Further information: Dr. Arthurs at the Foundation

The North American Experience in Managing International River Systems (December 7 to 11) - Albert E. Utton, University of New Mexico, Albuquerque
A tri-national team of experts examined the North American experience of the International Water Commissions of North America (commissions between Canada and the United States and between the United States and Mexico), comparing and contrasting their experiences, and proposed to experts from different international river systems recommendations for strengthening the commissions
Further information: Professor Albert E. Utton, Director, International Transboundary Resources Center, University of New Mexico, Albuquerque, New Mexico 87131-1431 USA

CULTURAL STUDIES

East European Bibliographies and European Networks (February 24 to 28) - Prosser Gifford, U.S. Library of Congress, Washington, D.C., and Marianna Tax Choldin, University of Illinois, Urbana

Participants agreed on a bibliographic and administrative system for maintaining the world bibliography of materials being produced about Eastern Europe in all major languages, to be located at a European institution. This centralized holding will be an important component in a European information network and a boon to Eastern European universities and research institutions that have suffered a 40-year deficit of research materials.

Further information: Dr. Prosser Gifford, Scholarly Programs, Library of Congress, LM 605, Independence Avenue and First, SE, Washington, D.C. 20540 USA

Scientific and Intellectual Cooperation in Europe during the 20th Century (September 7 to 11) - Giuliana Gemelli, University of Bologna, and Giulio Sapelli, University of Milan
An international research group, supported by the *Maison des Sciences de l'Homme, Paris*, and the *Centro di Ricerche sull'Europa, University of Bologna*, continued in their quest to develop a comparative analysis of the process of intellectual and scientific cross-fertilization between Europe and the United States during the 20th century.

Further information: Dr. Giuliana Gemelli, Dip. di Discipline Storiche, Università Bologna, Via Zamboni 38, 40126 Bologna, Italy

The Study of African Music and Dance: Problems and Prospects (October 12 to 16) - J. H. Kwabena Nketia, University of Ghana, Legon
Leading scholars reviewed the present state of and potential research in African music and dance with a view to a plan for dealing with gaps in present knowledge as well as developing a strategy for future international cooperation, including an on-going project on African music in

the world history of music series and strategies for its completion.

Further information: Professor J. H. Kwabena Nketia, Emeritus Professor, Institute of African Studies, University of Ghana, Legon Ghana

Pluralism and Its Cultural Expression (November 9 to 13) - Alberta Arthurs and Cliff Chanin, both of the Rockefeller Foundation
Intellectuals and opinionmakers from the United States and different parts of the Muslim world discussed pluralism, the interpretations made of it in these varying cultures, and its ramifications for social and political development, with a view toward launching a cross-cultural exploration of this theme

Further information: Mr. Chanin at the Foundation

ECONOMICS

Women's Human Capital in Low Income Countries: Causes and Consequences of Gender Differences (May 18 to 22) - T. Paul Schultz, Yale University, New Haven, Connecticut

Participants in this conference, part of a larger training and research program at Yale's Economic Growth Center on Gender Differences and Economics of the Family of Low Income Countries supported by the Foundation, interpreted evidence on factors that contribute to gender differences in productivity, schooling, and health and how these differences in human capital affect the welfare of family members, distinguished by sex and age.

Further information: Professor T. Paul Schultz, Director, Economic Growth Center, Yale University, New Haven, Connecticut 06520 USA

Reflections on Development (September 21 to 26) - Joyce L. Mook, Rockefeller Foundation
The fellows in this fourth round of the Foundation's Reflections on Development fellowship program, enabling a small group of African and Southeast Asian fellows to read, reflect and write on recent lessons, experiences, and challenges to devel-

oping countries, assessed the cross-regional relevance and meaning of their work and its fit into the overall state of international development studies and benefitted from critique and review by a group of outside advisors.

Further information: Dr. Mook at the Foundation

EDUCATION

Forum for African Women Educationalists (September 28 to October 2) - The Honorable Fay Chung, Minister of Education and Culture, Harare, Zimbabwe
This first planning meeting of the Forum for African Women Educationalists, a panel of African women ministers of education and university vice-chancellors, argued for improving girls' education by strengthening consensus on the importance of issues; examining the state of research, policy action, and local innovation; and influencing policy, research and action levels. It is hoped that the concept of a regional, highly placed consensus on female education in Africa will create an ethos supportive not only of the rights of women and girls to education at all levels but also to their effective and increased participation in other aspects of society.

Further information: Dr. Eddah Gachukia, Consultant, Development Communications Institute, P. O. Box 49940, Nairobi, Kenya

Universal Primary Education in Bangladesh (November 4 to 7) - F. H. Abed, Bangladesh Rural Advancement Committee (BRAC), Dhaka

Discussion centered on strategies of universal primary education in Bangladesh, assessment of the role of non-formal approaches, and examination of the contributions of NGOs in advancing the universalization goal. There was general endorsement of BRAC's objectives by the donor representatives and a consortium of donors was formed at a follow-up meeting held in Dhaka; pledges of assistance are expected toward BRAC's goal of setting up 35,000 new schools by 1995.

Further information: Dr. F. H. Abed,

Executive Director, BRAC, 66, Mohakhali C/A, Dhaka 1212, Bangladesh

HISTORY

Environmental History: South-Asian Perspectives (March 16 to 20) - David Arnold, School of Oriental and African Studies, University of London, England, and Ramachandra Guha, Institute of Economic Growth, Delhi, India
Scholars from different disciplines and backgrounds investigated the nature and consequences of changing relations between humans and the natural environment in South Asia and in general the growing field of environmental history, including setting an agenda for future research.

Further information: Professor David Arnold, Department of History, School of Oriental and African Studies, Thornhaugh Street, Russell Square, London WC1H 0XG, UK

Gender, Nationalisms and National Identities (July 13 to 17) - Catherine Hall, Polytechnic of East London, England, and Judith R. Walkowitz, Johns Hopkins University, Baltimore, Maryland
Historians, literary critics, sociologists, anthropologists, development studies experts, and cultural critics re-examined the question of how nations are constituted and what it means to belong to a national community, paying special attention to the different ways in which men and women adopt historically specific forms of national belonging.

Further information: Dr. Catherine Hall, 5 Mowbray Road, London NW6, 7QX, UK

Democracy in Fourth-Century Athens: Zenith or Nadir of a Constitution? (August 3 to 7) - Walter Eder, Ruhr-Universität Bochum, Germany
Specialists in the fields of ancient political history, history of law, art and archaeology, philosophy, literature, religion, economic history and social history of antiquity reassessed the almost universal negative attitude towards the quality of 4th-century

democracy. While developments in some fields supported the traditional view, evolution in many other fields - law, art history, religion, foreign policy, etc. - seems to indicate that change was a precursor to democracy as an appropriate form of constitution, a conclusion that argues for a thorough revision of the negative view of this period of history.

Further information:

Dr. Walter Eder, Fakultät für Geschichtswissenschaft, Ruhr-universität Bochum, Universitätsstrasse 150, D-4630 Bochum, Germany

LANGUAGE AND LITERATURE

American Literature for Non-American Readers (June 1 to 5) - Meta Grosman, Department of English, University of Ljubljana, Yugoslavia

Enhanced appreciation of American literature on the part of non-American readers, including knowledge about the actual processes of cross-cultural appreciation, is of great use for critics and reviewers in their attempts to facilitate the comprehension and reception of American literature in a cross-cultural context, and for translators in their efforts to help their readers toward a better understanding of their translations of American works.

Further information: Dr. Meta Grosman, Head, Department of English, University of Ljubljana, Askerceva 12, 61001 Ljubljana, Yugoslavia

LAW AND POLITICAL SCIENCE

Perceptions of Justice in East and West (February 17 to 21) - David S. Mason, Butler University, Indianapolis, Indiana, and Witold Morawski, University of Warsaw, Poland

At this penultimate meeting on popular perceptions of social justice of an international collaborative research project, involving scholars

from 11 countries, participants discussed the preliminary results of a single public opinion survey begun in 1991, planned the analysis of those results, and presented background papers on the issue of social justice in each country. The results of this project will provide the first truly comparative dataset on public perceptions of justice during a critical turning point in European history. Further information: Dr. David Mason, Department of Political Science, Butler University, Indianapolis, Indiana 46208 USA

East-South System Transformations (April 27 to May 1) - Adam Przeworski, University of Chicago, Illinois

This fourth and final meeting of scholars from 11 countries who are collaborating on a series of papers concerning political and economic reforms was convened to discuss and approve joint executive summaries of the particular themes and the project as a whole. The project is distinctive in its focus on the interdependence of political and economic transformations and in its emphasis on a close collaboration of scholars from several countries and academic disciplines. Further information: Dr. Adam Przeworski, Martin A. Ryerson Distinguished Service Professor, Department of Political Science, University of Chicago, Chicago, Illinois 60637 USA

International Advisory Council for Hungarian Criminal Law Reform (October 19 to 23) - Karoly Bard, Assistant Minister of Justice, Budapest, Hungary, and George Fletcher, Columbia University, New York, New York

Criminal law experts from Hungary, Italy, Germany, and the United States considered a draft for the reform of the Hungarian system of criminal justice, which it is hoped will have a positive effect upon the process of law reform in Hungary. Further information: Professor George P. Fletcher, School of Law, Columbia University, 435 West 116th Street, New York, New York 10027 USA

INTERNATIONAL RELATIONS

Humanitarian Action in the Post Cold War Era (May 11 to 15) - Dennis Gallagher, Refugee Policy Group, Washington, D.C. Key individuals from international organizations, nongovernmental organizations, policy and academic institutions and foundations debated issues and developed a framework for humanitarian action in the post-Cold War era expected to be useful to guiding initiatives of the United Nations and other international organizations.

Further information: Mr. Dennis Gallagher, Executive Director, Refugee Policy Group, 1424 16th Street, NW, Suite 401, Washington, D.C. 20036 USA

Weapons Proliferation and Strategic Stability in a New Era (July 6 to 10) - Michael Dewar, International Institute for Strategic Studies, London, and Spurgeon Keeny, Jr., Arms Control Association, Washington, D.C.

This final conference in the New Faces series, which the Foundation has supported since 1977, drew together young security specialists from around the world to evaluate pressing international security issues from a global perspective and benefited from the observations of Albert Carnesale who served as guest practitioner.

Participants addressed measures to slow the spread of nuclear, chemical, and biological weapons, as well as advanced conventional arms, and the impact that proliferation of these weapons has on a global basis and in particular regions. Further information: Colonel Michael Dewar, IISS, 23 Tavistock Street, London WC2E 7NQ, UK

The Extension of Public Policy Debate in Emerging Democracies (November 30 to December 4) - Craufurd D. Goodwin, Duke University, Durham, North Carolina, and Michael Nacht, University of Maryland, College Park

Experts from Latin America, East Central Europe, Western Europe, and the United States explored ways to strengthen and deepen the public policy debate in countries that are emerging from authoritarian regimes, looking ahead to how improvements can be made and how those outside these emerging democracies may help. Further information: Professor Craufurd Goodwin, Department of Economics, Duke University, Durham, North Carolina 27706 USA

MEDICAL AND POPULATION SCIENCES

Vitamin A Deficiency: New Imperatives and Directions (February 3 to 7) - Alfred Sommer, M.D., Johns Hopkins University, Baltimore, Maryland, and Ann Rate, Helen Keller International, New York, New York

Key scientists, program managers and representatives of international organizations active in the field of vitamin A deficiency prevention and control defined the links between vitamin A deficiency and childhood mortality and morbidity and made recommendations that will be widely distributed, principally through UN agencies and private voluntary organizations. Further information: Ms Anne Rate, Director, Vitamin A Program, Helen Keller International, 15 West 16th Street, New York, New York 10011 USA

Second Organizing Meeting for the Population Commission (March 3 to 6) - Steven W. Sinding, Rockefeller Foundation

Heads of American foundations, ministers of health and welfare from developed and developing countries, and heads of international organizations and NGOs concerned with population problems met to take the next steps in the formation of a population commission that will review the progress that has been made over the past 20 years in incorporating population considerations into social and economic development planning as well as in expanding the availability of family planning information and

services to help couples make choices about the number and spacing of their children.

Further information: Dr. Sinding at the Foundation

Health Transition in Developing Countries: Sector Priorities and Reform (June 22 to 26) - Jose-Luis Bobadilla and Anthony R. Measham, both of the Population, Health and Nutrition Division, World Bank, Washington, D.C. Senior World Bank and other agency staff and high-level officials of six countries commented critically on a draft formulation of World Bank health policy that addresses the issues caused by rapid changes in the age structure, living conditions and life styles in developing countries which have lead to an epidemiological transition. Participants also contributed, informally, to the development of policy in other participating international agencies and national governments.

Further information: Dr. Anthony R. Measham, Chief, Health and Nutrition Division, Population and Human Resources Department, World Bank, 1818 H Street, NW, Washington, D.C. 20433 USA

Population Sciences Staff Meeting (November 13 to 15) - Steven W. Sinding, Rockefeller Foundation Staff critiqued and reworked the Population Sciences new strategy paper for presentation to the Board of Trustees in December.

Review of the Goals of the South-to-South Cooperation in Reproductive Health Group

(November 16 to 21) - O. A. Ladipo, Executive Secretary, South-to-South Cooperation in Reproductive Health, Salvador, Brazil

Representatives from the South-to-South Cooperation in Reproductive Health, a non-governmental, non-profit organization established in 1987 with support from the Foundation, consisting of a consortium of scientists from developing countries committed to research activities focused on the improvement of reproductive health, reviewed achievements and critically appraised the group's contribution to knowledge in the field of human reproduction. Further information: Dr. O. A. Ladipo, Executive Secretary and Program Director, South-to-South Cooperation in Reproductive Health, Rua Caetano Moura 35, Federação, 40210 Salvador, Bahia, Brazil

PUBLIC POLICY

Black Community Crusade for Children (August 10 to 14) - Marian Wright Edelman, Children's Defense Fund, Washington, D.C. Participants examined the unfolding of the overall Leave No Child Behind Crusade, the motto for which was developed at a 1990 Bellagio conference, and ways to broaden the pool of key Black leaders aware of the crisis facing Black children and families and committed to supporting a long-term massive Black community crusade on their behalf. Further information: Ms Marian Wright Edelman, President, Children's Defense Fund, 122 C Street, NW, Washington, D.C. 20001 USA

Residents

AGRICULTURAL AND ENVIRONMENTAL SCIENCES

Thomas John Andrews (Australia), Australian National University, Canberra, and George Huntly Lorimer (UK), Dupont Company Experimental Station, Wilmington, Delaware. A monograph, *The Chemistry and Biology of Rubisco. The CO₂-Fixing Enzyme of Photosynthesis*.

Francis Bidinger (USA), International Crops Research Institute for the Semi-Arid Tropics, Andhra Pradesh, India. A report to the Ministry of Agriculture of the Government of Namibia on the priorities for, and the organization of, a research program on small-farmer crops in the northern districts of India

Melih Boydak (Turkey), University of Istanbul. An article on the silviculture of the *Cedrus libani*, one of the most important tree species for its role in history, economics, and conservation.

John D. Briggs (USA), Ohio State University, Columbus, and Jaroslav Weiser (Czechoslovakia), Institute of Entomology, Academy of Sciences, Prague. A book, *The Principles and Prospects for Microbiological Control of Injurious Arthropods*.

David L. Denlinger (USA), Ohio State University, Columbus, and Jan Zdarek (Czechoslovakia), Institute of Organic Chemistry and Biochemistry, Academy of Sciences, Prague. An article, "Metamorphosis Behavior and Its Regulation in Tsetse Flies (*Glossina* spp.) (Diptera: Glossinidae): A Review."

Kris A. Pirozynski (UK), Canadian Museum of Nature, Ottawa. An article, "Turnips, Turnips and Tomatoes: Reflections on 'Disfiguring' Disease as a Source of Evolutionary Novelty." Also, an article on the origin of flowers, fruits and organs of perennation from pathological deformations.

William J. Richards (USA), Southeast Fisheries Science Center, National Oceanic and Atmospheric Administration, U.S. Department of Commerce, Miami, Florida. A book, *Laboratory Guide to the Identification of the Eggs, Larvae and Juveniles of Fishes of the Western Central Atlantic*. Also, a paper on the early life history of the Atlantic bluefin tuna.

ARTS

COMPOSERS

John Casken (UK), University of Durham. A full orchestral score, *Still Mine*, for baritone and symphony orchestra, commissioned by the BBC. Also, a new work for the Northern Sinfonia.

Anthony Davis (USA), New York, New York. A music composition for dance, commissioned by choreographer Ralph Lemon.

Tania J. León (USA), Jackson Heights, New York. *Son Sonora*, for flute and guitar. Also, *Crossings*, a fanfare for brass ensemble.

James Primosch (USA), University of Pennsylvania, Philadelphia. An orchestral piece, commissioned as part of a NEA fellowship.

Walter K. Winslow (USA), Lawrenceville School, New Jersey. A large chamber composition for flute, violin, cello, piano, and percussion, *Locus Amoenus*.

VISUAL ARTISTS

Ken Aptekar (USA), New York, New York. A diptych, a triptych, and two four-panel paintings, part of an ongoing series related to the work of Rembrandt and Raphael.

Merilyn Fairskye (Australia), Queensland University of Technology, Brisbane. An artist's book, *Alphabets of Loss for the Late 20th Century*. Also, a screenplay, *Out of Place*

Ilona S. Granet (USA), *New York, New York*. Her artwork series, "Emily Post Street Signs Updated and Expanded."

Giliah Hirsch (Canada), *Venice, California*. A *Villa Serbelloni* post-card series; paintings in her "Temple of Mind" series, based on architecture of the Pantheon; paintings and literary writings, "L'Angela Annunziata"; a series of paintings, "The Venice Psalter"; and a docu-novel, *Long Monkey in the Forest*.

Joyce Kozloff (USA), *New York, New York*. Maplike watercolors depicting cities, visited and unvisited, real and imaginary.

Kay Walkingstick (USA), *Cornell University, Ithaca, New York*. Landscape gauche paintings on paper.

WRITERS

Alfred Corn (USA), *Columbia University, New York, New York*. Poems and a novel.

Stanley G. Crawford (USA), *Dixon, New Mexico*. A book, *New Mexico Essays/Essays on Community*, dealing with his life as a writer-farmer and community activist in a Hispanic village in northern New Mexico.

Anita Desai (India), *New Delhi and Mount Holyoke College, South Hadley, Massachusetts*. A novel about characters living in an "ashram" in India involved in sorting out the differences and similarities between sacred and profane love.

Jonathan Franzen (USA), *Philadelphia, Pennsylvania*. His third novel.

Eric Gamalinda (Philippines), *Center for Investigative Journalism, Manila*. A novel, *The Empire of Memory*. Also, a new novella and several poems for his collection, *The Speed of Light*.

John Harvey (UK), *Emmanuel College, Cambridge*. A novel, *The Love Artist*.

Joseph Heller (USA), *East Hampton, New York*. A novel, *Closing Time*.

Garrett Hongo (USA), *University of Oregon, Eugene*. *Volcano Journal*, a poetic memoir of sojourning and family life in the rainforest near Kilauea volcano on the island of Hawaii.

Kathryn Kramer (USA), *Washington University, St. Louis, Missouri*. Two novels, *Rattlesnake Farming* and *The Love Artist*.

Pierre Mertens (Belgium), *University of Brussels*. Biographical fiction, *On Picasso and Nicolas de Stael*.

Charles Newman (USA), *Washington University, St. Louis, Missouri*. A novel, *Last Victories*.

Joanne Omang (USA), *Washington, D.C.* A novel about do-gooders, people driven to help and change others, set in contemporary Central America.

Ralph Salisbury (USA), *University of Oregon, Eugene*. A quartet of novels, *The Raven Mocker Wars*.

Paula Vogel (USA), *Brown University, Providence, Rhode Island*. A new play, *Hot and Throbbing*, examining pornography and the male gaze.

Per Wästberg (Sweden), *International PEN, Stockholm*. A novel, *Flame of the Wind*.

CULTURAL STUDIES

Fedwa Malti-Douglas (USA), *Indiana University, Bloomington*. A book on the Arab world's leading feminist, Egyptian physician Nawal al-Saadawi. Also, a chapter on gender and religious revival for a book on cultural politics of the religious revival in the Middle East.

Jean Franco (UK), *Columbia University, New York, New York*. An essay, "From Gift to Exchange," documenting the recent transformation of La Malinche, interpreter and mistress of Cortes, into the symbol of multiculturalism. Also, an essay on the modern obsession with "hybridity." With Gayatri Spivak, below, explored ways new types of inequality are concealed in an era of globalization.

Henry L. Gates, Jr. (USA), *Harvard University, Cambridge, Massachusetts*. A memoir, *Coloured People: Letters to My Daughters*.

Nikki Keddie (USA), *University of California, Los Angeles*. Two books, *Why Has Iran Been Revolutionary? and Identity Politics*.

Suna Kili (Turkey), *Bogazici University, Istanbul*. A book, *A Comparison of the Status and Goals of Women in the Islamic Middle East, Turkey, and the United States*.

Henry Siegman (USA), *American Jewish Congress, New York, New York*. A book on the American Jewish community, with special emphasis on Christian-Jewish relations, the Arab-Israel conflict and peace process, and tensions between modernism and Jewish tradition.

Gayatri Spivak (India), *Columbia University, New York, New York*. A book, *Outside in the Teaching Machine*. Also, an English translation of *Women of Algeria in Their Apartment*. With Jean Franco, above, developed a broader framework within which her work on Algerian women may be situated.

ECONOMICS

Richard Hooley (USA), *University of Pittsburgh, Pennsylvania*. A book, *A Century of Economic Development in the Philippines (1885-1987)*, on the role of the American bureaucracy and the indigenous elite in shaping economic development policy in the Philippines during the past century.

Cormac O'Grada (Ireland), *University College, Dublin*. Two books, *Ireland 1780-1939: A New Economic History* and *The Economic Development of Ireland since 1870*. Also, a paper on the demographic history of Dublin based on the archives of the Rotunda Hospital.

EDUCATION

Samuel Halperin (USA), *William T. Grant Foundation Commission on Work, Family, and Citizenship, Washington, D.C.* Two reports, *Making Sense of Federal Job Training Policy: 24 Expert Recommendations to Create "A Comprehensive and Unified Federal Job Training System" and Youth Apprenticeship in America: Guidelines for Building an Effective System*, both published in 1992.

Harold Howe II (USA), *Harvard Graduate School of Education, Cambridge, Massachusetts*. A book, *Reforming the Reformers: Education vs. Schooling*.

HISTORY

Claudia L. Bushman (USA), *New York, New York*, and Richard L. Bushman (USA), *Columbia University, New York, New York*. A study of farming in early America.

William H. Chafe (USA), *Duke University, Durham, North Carolina*. A book, *Never Stop Running: Alford K. Lowenstein and the Paradox of Liberal Activism*.

Tibor Frank (Hungary), *Eötvös Lorand University, Budapest*. A book, *East Central European Emigration and US Immigration Policies in the First Half of the 20th Century*.

Ivan Itchev (Bulgaria), *Sofia University*. A book, *My Country, Right or Wrong! The International Propaganda of the Balkan States, 1821-1923*.

William Kilbourn (Canada), *York University, Ontario*. A biography of Max Aitken, first Lord Beaverbrook, Canadian entrepreneur.

Gabriel Kolko (Canada), *York University, Ontario*. A book, *The Internal Dynamics of Wars in the 20th Century in Comparative and Historical Context*.

Eunice Lipton (USA), *New York, New York*. A book, *Alias Olympia: A Woman's Search for Manet's Notorious Model and Her Own Desire*. Also, a book combining ruminations about her life with investigations of what it was like to be Jewish in 19th-century France for Sarah Bernhardt, Camille Pissarro and Marcel Proust.

Mary Beth Norton (USA), Cornell University, Ithaca, New York. A book, *Gender in 17th-century America*.

David Rosand (USA), Columbia University, New York, New York. A book, *On Drawing: Critical and Historical Studies*. Also, a paper on painter Jacopo Bassano, "L'Accademia in campagna."

Ellen Rosand (USA), Yale University, New Haven, Connecticut. A book, *Monteverdi's Late Operas*.

INTERNATIONAL RELATIONS

Samuel P. Huntington (USA), Harvard University, Cambridge, Massachusetts. A book, *Three Strategies: American National Security after the Cold War*. Also, a paper on the relation between global trends of political democratization and economic liberalization.

LANGUAGE AND LITERATURE

M. Mustafa Badawi (UK), St. Antony's College, Oxford. A book, *A Short History of Modern Arabic Literature*.

Jorge Silva Castillo (Mexico), El Colegio de Mexico, Mexico City. Translation into Spanish of the 1600 verses of the Gilgamesh Epic (2000 B.C. to the end of the first millennium B.C.).

Allen Douglas (USA), Indiana University, Bloomington. A book, *Ideology and Discourse in a French Satirical Newspaper*.

M. Marjorie Evasco-Pernia (Philippines), De La Salle University, and Edna Zpanata Manlapaz (Philippines), Ateneo de Manila University, both of Manila. A book, *Inter/Views. Eight Women Poets in Philippine Literature*

David Ker (Nigeria), Ahmadu Bello University, Zaria. A book, *The African Novel and the Modernist Tradition*.

Kenneth R. Lincoln (USA), University of California, Los Angeles. A book, *Native Poetics, a study of neoprimitive and indigenous rhythms in American verse*. Also, *American Men: Down West of West*, essays on the American character as an autobiographical-historical look at the male American psyche of the last 100 years.

John E. Malmstad (USA), Harvard University, Cambridge, Massachusetts. A biography of Mikhail Kuzmin, one of Russia's most important 20th-century poets

Robert L. Montgomery (USA), University of California, Irvine. A book, *Shakespeare's Conventional Sonnets*.

José Miguel Oviedo (Peru), University of Pennsylvania, Philadelphia. A Spanish-American literary history.

Qing Qian (People's Republic of China), Beijing Foreign Studies University. *Continuity and Innovation*, a survey of American fiction of the late 1940s to the late 1980s. Also, an article, "Three Jewish-American Women Writers: Tillie Olsen, Grace Paley, Cynthia Ozick."

Lewis E. Rowell (USA), Indiana University, Bloomington. A book, *The Sense of a Musical Beginning*, arguing the importance of the first few measures of a musical work

Ted Solotaroff (USA), Columbia University, New York, New York. An essay on the poetry and literary career of Hayden Carruth. Also, his autobiography.

Joseph Viscomi (USA), University of North Carolina, Chapel Hill. Volume I, *Blake and the Idea of the Book*.

Linda Wagner-Martin (USA), University of North Carolina, Chapel Hill. A family biography, *The Steins: Gertrude Stein in Context* and a monograph, *Telling Women's Lives: The New Biography*. Also, poems for a collection, *Stories*.

Ruth Plaut Weinreb (USA), State University of New York, Stony Brook. A book, *Eagle in a Gauze Cage: Louise d'Épinay, Femme de Lettres*.

LAW AND POLITICAL SCIENCE

Gloriá Ardaya-Salinas (Bolivia), University of San Andrés, La Paz (on leave in Bern, Switzerland). A study, "Women and Political Systems: Gender Relationships in Bolivian Political and Union Organizations."

Brian Barry (UK), London School of Economics and Political Science, England. Volume II (of four), *Treatise on Social Justice*.

John Bokina (USA), University of Texas-Pan American, Edinburg. A book, *The Politics of Opera*.

David Burnham (USA), Washington, D.C. An investigative report on the Justice Department.

Maya Chadda (India), William Patterson College, Wayne, New Jersey. A book, *Ethnicity, State and Power: India's Quest for Regional Security in South Asia*.

Jesse H. Choper (USA), University of California, Berkeley. A book, *Church, State, and the Supreme Court: Toward a Comprehensive Theory of the Religion Clauses of the First Amendment*.

Margaret M. Coady (Australia), University of Melbourne, Parkville, Victoria. A book on codes of ethics for the professions. Also, a paper, "Moral Deliberation and Codes of Ethics."

Einer Richard Elhauge (USA), University of California, Berkeley. A book, *American Health Care Law Policy: How We Make the Worst out of a Bad Situation*.

Robert A. Ferguson (USA), Columbia University, New York, New York. A book, *The Trial in American Life*.

Michael Laver (Ireland), University College, Galway, and Kenneth A. Shepsle (USA), Harvard University, Cambridge, Massachusetts. Two books, *Cabinet Ministers and Parliamentary Government* and *Government Formation in Parliamentary Democracies*

Marilyn L. MacCrimmon (USA), University of British Columbia, Vancouver, Canada. An article, "Developments in the Law of Evidence, the 1990-1991 Term: Social Science, Law Reform and Equality."

Lloyd L. Weinreb (USA), Harvard Law School, Cambridge, Massachusetts. A book, *Oedipus at Fenway Park: What Rights Are and Why There Are Any*.

Harold L. Wilensky (USA), University of California, Berkeley. A book, *Tax and Spend: The Political Economy and Performance of 19 Rich Democracies*.

MEDICAL AND POPULATION SCIENCES

Bruce N. Ames (USA), University of California, Berkeley. A review, "The Causes and Prevention of Degenerative Diseases Associated with Aging."

Helen M. Blau (USA), Stanford University School of Medicine, California. A review of gene therapy. Also, two articles, "How Cells Know Their Place" and "Regulation of the Differentiated State."

Thomas N. Bonner (USA), Wayne State University, Detroit, Michigan. A book, *To Become a Doctor: The Shaping of Medical Learning in Britain, France, Germany, and the United States, 1800-1920*.

Daniel M. Fox (USA), Milbank Memorial Fund, New York, New York. A book on chronic illness and health policy in the United States.

Phyllis Freeman (USA), *University of Massachusetts, Boston*, and Anthony Robbins, M.D. (USA), *Boston University, Massachusetts*. A book, *Controlling Disease by Design*, describing the history and public policy issues surrounding efforts to prevent infectious diseases using vaccines.

John Fry, M.D. (UK), *Kent*. A book, *Medicine in Two Societies: Primary Care in the US and UK*. Also, a report on international comparisons of primary health care for the Nuffield Provincial Hospitals Trust.

Gavin W. Jones (Australia), *Australian National University, Canberra*. A book, *Marriage and Divorce in Islamic Southeast Asia*.

John Last, M.D. (Australia), *University of Ottawa, Ontario, Canada*. A book, *Ethical Issues in Epidemiology*, covering privacy and confidentiality versus access to health information, rights and needs in communicable disease control, assessing benefits and harms, ethical review procedures, impartiality and advocacy, and codes of conduct.

John F. McDermott, Jr., M.D. (USA), *University of Hawaii at Manoa, Honolulu*. A monograph, *The Development of Research Strategies and a Guide to Scientific Publication in Child and Adolescent Psychiatry*, assistance for authors from developing countries who are unsuccessful in submitting manuscripts for publication to the *Journal of the American Academy of Child and Adolescent Psychiatry*.

David G. Nathan, M.D. (USA), *Children's Hospital, Boston, Massachusetts*. A book, *The Immortal Sword*, describing the genetics of an inherited disorder of hemoglobin, *Thalassemia (Mediterranean Anemia)* that afflicted one of his patients and the public controversies that surrounded its prevention.

Ndolam Ngokwey (Zaire), *UNICEF, Cotonou, Benin*. A book, *Medical Pluralism in a Brazilian City*.

Jose Osorio Hoyos, M.D. (Colombia), *Universidad del Valle, Cali*. A textbook in medical ethics.

Guia Pedagogica para la Enseñanza de la Etica en las Ciencias de la Salud.

Arnold S. Relman, M.D. (USA), *Brigham & Women's Hospital, Boston, Massachusetts*. A book on reforming the American health care system.

Alfred Sommer, M.D. (USA), *Johns Hopkins University, Baltimore, Maryland*. A monograph, *Vitamin A Deficiency: Impact on Health, Survival and Vision*.

PHILOSOPHY AND RELIGION

Jennifer Ann Church (USA), *Vassar College, Poughkeepsie, New York*. A book, *The Difference That Consciousness Makes*.

C. A. J. Coady (Australia), *University of Melbourne, Parkville, Victoria*. A book, *The Morality of Political Violence*. Also, an article, "Ethos and Ethics in Business".

Marcia Muelder Eaton (USA), *University of Minnesota, Minneapolis*. Three papers on the connection (or lack thereof) between aesthetic and moral value.

David Gauthier (Canada), *University of Pittsburgh, Pennsylvania*. A book, *Rational Commitment*. Also, two papers, "Assure and Threaten" and "The Moral Contract."

David Ray Griffin (USA), *School of Theology, Claremont, California*. A book, *A Peaceable Theology of Freedom for a Postmodern America*, dealing with the ideological factors that have influenced US foreign policy.

PSYCHOLOGY

Benny Shanon (Israel), *Hebrew University, Jerusalem*. *Representations and Presentations*, a critique of the dominant theoretical framework in contemporary cognitive science.

Carlos A. B. Tomaz (Brazil), *University of São Paulo*. A textbook on psychobiology.

Robert S. Wallerstein, M.D. (USA), *University of California, San Francisco*. A book on the development of psychoanalytic or dynamic psychotherapy as an outgrowth of psychoanalysis.

Lawrence Weiskrantz (UK), *University of Oxford*. A monograph on the implications of a large, characteristic set of disorders caused by brain damage on consciousness.

PUBLIC POLICY

Ronald A. Feldman (USA), *Columbia University, New York, New York*. A book, *Youths at Risk: Towards Effective Community-Based Interventions*, examining proposals regarding the design and implementation of school-linked health and social service programs, neighborhood centers, and a national youth service.

Nancy Fraser (USA), *Northwestern University, Evanston, Illinois*, and Linda Gordon (USA), *University of Wisconsin, Madison*. A book, *Keywords of the Welfare State*.

Shirley Brice Heath (USA) and Milbrey Wallin McLaughlin (USA), both of *Stanford University, California*. A book, *Suitable Company: Learning, Work, and Language for Inner-city Youth*, focussing on the kinds of learning offered in youth organizations that enable them to acquire strategies, attitudes, and competencies of mainstream institutions.

Robinson G. Hollister (USA), *Swarthmore College, Pennsylvania*. A study, "The Underclass and Contagion of Poverty."

Peter E. Marchetti (Nicaragua), *Universidad Centro Americana, Managua*. A synthesis of the experiences, bottlenecks, methodology advances, and results of an initiative for alternative development in Nicaragua.

SOCIOLOGY AND ANTHROPOLOGY

Andrew Billingsley (USA), *University of Maryland, College Park*. A book, *The Black Church as a Social Institution* and commentary for *The Essential Ideas of E. Franklin Frazier as Reflected in His Correspondence, 1922-1962*. Also, a monograph, *The Family Legacy of Robert Smalls: Civil War Hero*.

Sophie Body-Gendrot (France), *University of Paris IV, La Sorbonne*. A book, *Cities and Violence: The Interruption of New Actors*.

Veronica Brady (Australia), *University of Western Australia, Nedlands*. A book, *Australian Culture, Belief and Aboriginal Australians*, an attempt to understand why a tolerant and easy going society like Australia should be so prejudiced against its Aboriginal inhabitants.

Daniel Chirot (USA), *University of Washington, Seattle*. A book, *Thinkers, Killers, and Thieves: Tyrants of the 20th Century*. Also, an article, "Contract Versus Charity: A Reconsideration of the Relationship between Civil Citizenship and Social Citizenship."

Priscilla Clark Ferguson (USA), *Columbia University, New York, New York*. A book, *Writing Revolutions*, exploring the literary and textual connections between the city and revolution.

Myra MacPherson (USA), *Washington Post, Washington, D.C.*. A book, *From Iconoclast to Icon: The Life and Times of Radical Journalist L. E. Stone and His Role in the American Press*.

Philip Rieff (USA), *University of Pennsylvania, Philadelphia*. Volume 1, *A Sacred Order/Social Order: Studies in the Aesthetics of Authority*.

Neil J. Smelser (USA), *University of California, Berkeley*. A long-term project, a history of American sociology in the 20th century. Also, a book,

Effective Committee Service, part of a series on organizational and practical aspects of college and university life

Dale Thomson (Canada), McGill University, Montreal, Quebec A book, *Quebec Ethnicity in Comparative Context Development and Application of a Theoretical Paradigm*

Judith S. Wallerstein (USA), Center for the Family in Transition, Corte Madera, California A book, *Marriage in a Culture of Divorce*

Julian Wolpert (USA), Princeton University, New Jersey A book, *The Generosity of Americans*, on the effectiveness of both philanthropic and public forms of giving in an era of fiscal federalism

Michael Young, Lord of Dartington (UK), Institute of Community Studies, London A book, *The Presumption of Immortality*, on death and bereavement in East London

Other Interests
and Initiatives Grants

THREE RELATIVELY SMALL GRANT programs are included in this section. They support work in (1) International Security – limiting the proliferation of nuclear and other weapons of mass destruction, encouraging developing-world participation in international security deliberations, and broadening the international security agenda to include the environment and other global issues (2) International Philanthropy – establishing new and/or strengthening existing foundation-like organizations in the developing world (3) Special Interests and Explorations, and the Archives – exceptionally meritorious projects that do not fall within established program guidelines, and general support for the Rockefeller Foundation Archives

International
Security

African Leadership Foundation Inc., New York, New York
\$25,000
In final support of the Obasanjo-Deng peace initiative in the Sudan

Armswatch [1991 - \$319,000 in addition to remaining funds from prior year appropriations]
To plan Armswatch and to provide budgeting support for the Center for War, Peace and the News Media at New York University

New York University, New York
\$149,000

In bridging support for its Center for War, Peace and the News Media

Center for the Study of Soviet Change, Washington, D.C.
\$75,000
In start up support for its Soviet Nuclear Proliferation project

Council for Responsible Genetics Cambridge, Massachusetts
\$10,000
In support of its international circulation of the Pledge Against the Military Use of Biological Weapons and related activities

Albert Einstein Peace Prize Foundation, Northbrook Illinois
\$4,000
To support the participation of Mr. K. Subrahmanyam in a conference on the Proliferation of Nuclear Weapons Past, Present and Future held in Chicago December 1-5 1992

Human Rights Watch, New York, New York
[1992 - \$500,000]
To help it establish an arms monitoring unit

International Peace Academy, New York, New York
\$100,000
In general support of its activities

Massachusetts Institute of Technology, Cambridge
\$100,000
Toward continued support of a series of conferences on Control of Unconventional Arms in the Middle East to be held by the Institute's Defense and Arms Control Studies Program

Monterey Institute of International Studies, California
\$50,000
Toward the costs of developing a computer database on the international ballistic missile trade and non-proliferation

Parliamentarians for Global Action, New York, New York
\$99,820
In support of its Multilateral Verification project

Peace Research Institute Frankfurt, Germany
\$25,000
In support of its project A Nuclear Nonproliferation Strategy for the New Europe

Henry L. Stimson Center, Washington, D.C.
\$92,085
Toward the costs of its project exploring the possibility of establishing a private fund to expedite the Chemical Weapons Conventions verification regime

Wisconsin Project on Nuclear Arms Control, Washington, D.C.
[1992 - \$315,000]
To support the Project's work to limit the spread of technology used in nuclear weapons and ballistic missiles and to introduce into the Project researchers from potential proliferator countries

Woodrow Wilson International Center for Scholars, Washington, D.C.
\$15,386
Toward support of a project that would examine why countries including South Africa curtailed their own nuclear weapons programs (Joint grant with African Initiatives for a total of \$35,386)

Special International Initiatives

INTERNATIONAL PHILANTHROPY

Ashoka Innovators for the Public,
Arlington, Virginia
\$15,000

*To assist in the development of the
Citizen Base Initiative with the
Ashoka Fellowship program*

Badi' Foundation,
Macao
\$28,350

*To explore rural development with
the Office of Science and Technology
of Hainan Province, China*

Conservation Company,
Philadelphia, Pennsylvania
\$100,000

*Toward the costs of completing
the initial phase of design for, and
arranging the legal establishment
of, the Willy Brandt International
Foundation*

Development of Philanthropy
Abroad
[1991 - \$1,500,000]

*To launch a Rockefeller Foundation
program that will aim to encourage
and help develop philanthropy abroad*

Committee for South African
Development

[1991 - \$368,000]

*To support the work of the Committee
for South African Development in
exploring means by which the interna-
tional community can promote the
improved economic, educational, and
social opportunities required in a
future post-apartheid South Africa,
including the feasibility of establishing
an international development bank*

Consortium for Global
Development,
Menlo Park, California
\$100,000

For general support

Council on Foundations,
Washington, D C
\$24,700

Toward its 1992 operating expenses

Council on Ocean Law,
Washington, D C
\$25,000

For general support

Court Appointed Special
Advocates, Inc.,
New York, New York
\$75,000

*In support of its Volunteer
Advocacy Project*

Essential Information,
New York, New York
\$100,000

In support of the Time Dollar Project

Families and Work Institute,
New York, New York
\$30,000

*Toward the cost of a study entitled,
"The National Study of the Changing
Workforce"*

Film Arts Foundation,
San Francisco, California
\$20,000

*Toward post-production expenses for
"Ahimsa," a documentary film about
human rights abuses in Tibet*

Foundation Center,
New York, New York

*[1992 - \$225,000, in addition
to remaining funds from prior
year appropriations]*

*To continue support for the
Center's efforts to provide
information to the public about
US philanthropic foundations*

Foundation for Social Innovations
USA,
New York, New York
\$50,000

*Toward support of the Civil Society
Leadership Fellows Program*

Fund for the City of New York,
New York
[1992 - \$200,000]

*To facilitate the development of a pilot
community court in Times Square
aimed at clearing an overburdened
central court calendar of misde-
meanors, diverting local offenders into
treatment and social service programs,
and engaging community residents in
shaping the solutions to their own
crime problems*

Graduate School and University
Center of the City University of New
York, New York
\$50,000

*Toward the costs of its project entitled
"Evaluating the Effectiveness of
Voter Registration Systems in the
United States"*

Harvard University,
Cambridge, Massachusetts
\$75,000

*In support of a project at its Institute
for Social and Economic Policy in the
Middle East entitled "The Economics
of Transition"*

\$50,000

*Toward support of a project to assess
the ability of the US government to
address key domestic issues*

Independent Sector,
Washington, D C
\$7,400

Toward general support during 1992

Institute for Sustainable
Communities,
South Royalton, Vermont
\$50,000

Special Interests and Explorations

Academy for Educational
Development,
Washington, D C
\$25,000

*Toward the costs of establishing
the National Public Broadcasting
Archives*

American Documentary, Inc.,
New York, New York
\$100,000

*In support of its Minority Investment
Fund for Film and Video*

American Indian College Fund,
New York, New York
\$100,000

Toward its administrative costs

Association of American
Universities,
Washington, D C
\$25,000

*In support of its Higher Education
Colloquium on Science Facilities*

Beloit College,
Wisconsin
\$5,000

*For preservation of the photographic
negatives it has acquired from*

*the 1909 Oriental Education
Commission Expedition sponsored by
John D Rockefeller*

Brooklyn Historical Society,
New York
\$50,000

*Toward support of "Bridging Eastern
Parkway," a community history and
conflict resolution project aimed at
promoting harmony in Crown
Heights, Brooklyn*

California School Boards
Foundation,
West Sacramento
\$30,000

*Toward the costs of a conference en-
titled "Celebrating Opportunities for
Hispanic Students: Strategies for
Success," held March 20-22 1992, in
San Diego (Joint grant with School
Reform for a total of \$60,000)*

Committee on the Constitutional
System,
Washington, D C
\$29,000

*To enable it (1) to hold a conference
on the problems and potential remedies
for the US governmental system, and
(2) to publish the conference papers*

Toward final support for completion of the Community Environmental Action Project in Hungary

Bo Karlstrom,
Stockholm Sweden
\$50,000

Toward the costs of a study on the role of international private capital in the development process

National Charities Information
Bureau, Inc.,
New York, New York
\$5,000

Toward its 1992-93 operating budget

National Council for Research
on Women,
New York, New York
\$35,000

In support of its development of a strategic plan for moving the Council toward self-sufficiency

National Opinion Research Center
(NORC),
Chicago, Illinois
[1992 - \$150,000]

To support an increase in the sample size of a national social survey of sexual behavior with emphasis on behaviors that put population groups at risk of AIDS and other sexually transmitted diseases

New Departures Inc.,
Cambridge, Massachusetts
\$50,000

In support of its quarterly magazine Reconstruction

New 42nd Street, Inc.,
New York, New York
\$50,000

To support the development of children's programming for the New Victory Theatre via three studies

New Images Productions, Inc.,
Berkeley, California
\$75,000

Toward production costs of the film Simple Justice

New York Public Library
New York
[1992 - \$200,000]

To facilitate the advance planning needed to assure that its new technologically advanced Science Industry and Business Library (SIBL) will provide sophisticated information services to a wide public

New York Regional Association of
Grantmakers,
New York
\$10,000

Toward general support for 1993

Philanthropic Initiative,
Boston, Massachusetts
\$75,000

In support of its 1992 activities

Public Television Playhouse, Inc
(American Playhouse)
New York, New York
[1992 - \$350,000]

To help establish a nonprofit fund for the making of independent films

Rockefeller Foundation Matching
Gift Program
[1992 - \$100,000]

Scientists' Institute for Public
Information (SIPI),
New York, New York
[1992 - \$150,000]

To improve public understanding of science by strengthening SIPI's information services for the news media

Society for the Advancement of
Women's Health Research,
Washington, D.C.
\$25,000

Toward the costs of a series of regional roundtable discussions on the subject of women in medicine

South Bronx 2000 Local
Development Corporation,
New York, New York
\$100,000

Toward its environmental enterprises economic development program

Take It Back Foundation,
Burbank, California
\$92,000

To develop for a city to be selected a comprehensive plan for maximum recycling and remanufacturing of municipal solid waste

University of North Carolina at
Chapel Hill
\$8,500

For a survey of Chinese students in the United States

WNYC Foundation,
New York, New York
[1992 - \$300,000]

To support its production of a weekly public television series In the Mix geared to teenage audiences

Women's Dialogue, U.S./U.S.S.R.
New York, New York
\$10,000

Toward the costs of a Russian-language newsletter on women's issues

Women and Foundations/Corporate
Philanthropy,
New York, New York
\$25,000

Toward its 1992-93 operating budget

ROCKEFELLER
FOUNDATION ARCHIVES

Rockefeller University,
New York, New York
\$517,862

To cover operating costs associated with the preservation and continuing use for future generations of Foundation records deposited at the Rockefeller Archive Center

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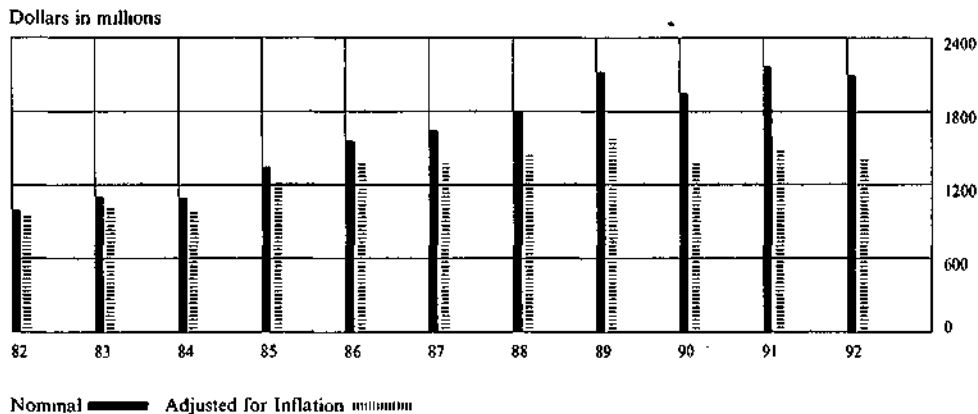
Financial Report

DURING 1992 THE FOUNDATION UNDERTOOK A sweeping reexamination of its long-term financial objectives and investment policy. Among the concerns motivating the review were: 1) the world-wide recession and anemic economic recovery, 2) substantial write-downs in the Foundation's equity real estate portfolio and 3) the increasing complexity of the Foundation's investment program. Against this background, the Foundation's present and historical reliance on strategies with equity characteristics – venture capital, high yield bonds and equity real estate, as well as domestic and foreign equity – became the subject of intense scrutiny and lengthy discussion. The Finance Committee focused on the interrelationship between spending policy, willingness to bear risk and the expected investment landscape of the 1990s. After a six-month period of deliberation, the Finance Committee adopted a new investment policy, under which the annual spending guideline was reduced to 5.8% of assets and the statistically measured risk of the portfolio declined by 6%. The Foundation's long-term financial objective to maintain the real value of the endowment is satisfied by the revised asset allocation policy.

The new asset allocation policy is more diversified than the previous one. Reviewing asset classes in which the Foundation had not historically invested, the Trustees approved the addition of international bonds to the portfolio. The reliance on passive index arbitrage strategies to enhance returns was reduced to make room for an increase in the proportion of assets managed by investment managers who utilize fundamental active strategies. The most important impacts of the policy changes are to reduce the U.S. equity sector by 13% of total assets and increase the combined foreign bond and equity sectors by a like amount. The combined domestic and foreign bond sectors increased by 8%. At year end, except for full funding of the international bond component, the securities sales and purchases required by the new investment policy had been implemented. Additional detail about the new investment policy is included in the Asset Mix section below.

Members of the Finance Committee, under the leadership of Chairman Arthur Levitt, Jr., deserve a vote of thanks for their active participation, searching examination of the issues, and constructive counsel, which were instrumental in bringing the policy planning effort to a successful conclusion.

ASSET GROWTH The market value of the Foundation's assets totaled \$2,090 million at December 31, 1992, a decrease of 3.3% from the 1991 year end total of \$2,161 million. The graph below shows growth in asset values over the past ten years. Nominal assets grew at an 7.7% annualized rate over the period. The real value grew at a 4.0% annualized rate, which is well above the Foundation's long-term objective of maintaining level real asset values.



ASSET MIX Diversification among asset classes is the most important characteristic of the Foundation's investment strategy; it is the main determinant of long-term return and aggregate portfolio volatility. The allocation of assets between the different asset sectors will explain 80 to 90% of the Foundation's investment return experience, easily dwarfing the impact of the investment managers, which will explain the remaining 10 to 20%. The Trustees believe that the policy asset mix will enable the Foundation to achieve its 5.8% program spending guideline and maintain the real value of the endowment over the long-term, within tolerable risk limits. Furthermore, given the recent review, the Trustees are also confident that the new investment policy makes more desirable risk/return tradeoffs than its predecessor.

The investment program is structured into seven asset classes: U.S. equity, 32%; foreign equity, 25%; U.S. fixed income, 16%; foreign fixed income, 7%; real estate, 10%; venture capital, 7%; and high yield bonds, 3%. Asset classes which are not fully invested at policy targets are held in cash. The Trustees also approved an allocation of up to 5% of assets to skill-based strategies, such as bond or currency trading, where returns are independent of the long-term systematic reward for bearing risk, as produced by indexed strategies. The "skill" sector is expected to: 1) be uncorrelated with the traditional asset classes listed above and 2) produce returns at least equal to that provided by the policy mix of traditional asset classes. Finally, because of the fixed return nature of the Foundation's program related investment (PRI) program, PRIs are included in the domestic fixed income allocation. Since PRIs earn below market returns, the Foundation program unit authorizing each PRI "writes up" the return on the PRI from the concessional rate at which it is issued to an appropriate market rate out of its grant budget, so that the achievement of the Foundation's financial objectives is not compromised.

The table below shows the asset allocation of the endowment at year end 1992 and 1991. The categories reflect economic exposures to asset classes, including the market value exposure of derivative securities, primarily equity, and bond futures. Because these categories incorporate the asset class exposure of derivative securities, they differ from those presented in the accompanying financial statements and described further in Note 1. The reason for the substantial changes in asset mix from 1991 to 1992 is the adoption of the new investment policy.

December 31	1992		1991	
	\$ Millions	Percent	\$ Millions	Percent
U.S. Equities	\$ 616	29.5%	\$1,032	47.8%
Foreign Equities	506	24.2	319	14.8
U.S. Bonds	377	18.0	339	15.6
Cash	266	12.7	254	11.8
Real Estate	119	5.7	111	5.1
Venture Capital	85	4.1	77	3.6
Foreign Bonds	76	3.6	0	0.0
High Yield Bonds	35	1.7	22	1.0
PRI's	10	0.5	7	0.3
	\$2,090	100%	\$2,161	100%

INVESTMENT
RETURNS

The Foundation's investment program is designed to maintain the real value of assets and support an operating budget at the 5.8% of assets level, which exceeds the 5% IRS distribution requirement. While returns will not precisely equal the requirement in any year, the Foundation is prepared for periodic setbacks, confident that patient capital market participation offers the most viable strategy for achieving its long-term financial objectives.

The total investment return was 2.1% in 1992. Except for domestic fixed income, the capital markets did not offer the returns to which investors became accustomed in the 1980s. For example, the 7.6% return of the Standard & Poor's 500 index in 1992 is less than half of the 17.5% return of the index in the 1980s and 2.7% below the 10.3% annualized return in the 67 years since 1926. The sale of domestic equity and purchase of foreign equity and bonds as called for by the new policy early in the fourth quarter reduced returns somewhat as the fourth quarter was the strongest quarter for domestic equity. International investors suffered another disappointing year as foreign equity markets performed poorly in both local currency and dollars. In U.S. dollar terms, the MSCI-Europe-Australia-Far East index was down 8.9% annualized for the last three years. In fixed income, in which the Foundation maintained a modest 15%-19% weighting through the year, investors experienced another year of good returns, extending to five years the opportunity to earn high single-digit and double-digit returns. Among the remaining sectors, which account for 10% of total assets, real estate, with a 6% weighting, continued to slide, while both the venture capital and junk bond sectors turned in strong results.

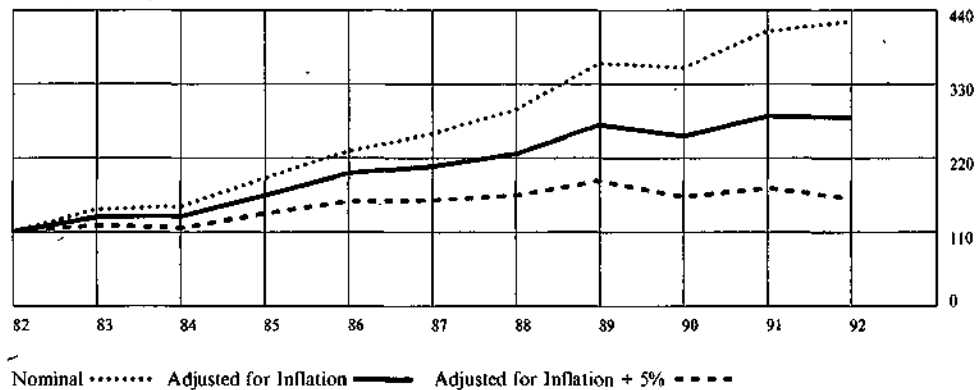
On balance, even though net investment return was positive, 1992 was a difficult year as the Foundation's return lagged behind institutional averages. The Foundation's relatively high exposure to foreign equities held returns back, as did continuing losses in the real estate program, which in two years have reduced the Foundation's equity real estate exposure from a high of 8.6% of assets to 5.7%, despite additional funding of new investments. Furthermore, even though the Foundation's domestic equity program outperformed its benchmark, that outperformance was not enough to offset the underperformance of the mortgage-backed securities program.

Cumulative returns, net of all investment-related fees, for the last ten years are shown on the top line in the graph below. The average annual compound rate of return on invested capital for the ten-year period was 13.1%. Adjusted for inflation, the compound annual real return was 9.2%.

INVESTMENT MANAGERS

The Foundation employed six U.S. equity managers at the end of 1992 – Wells Fargo Nikko Investment Advisors (WFNIA), Rosenberg Institutional Equity Management (RIEM), MTH Asset Management, Advanced Investment Management, Concord Capital, Geewax-Terker and Amerindo Investment Advisors. The domestic fixed income sector is managed by WFNIA, Rosenberg Capital Management and Smith-Breeden Associates. International equities are managed by WFNIA, Mercator Asset Management, Acadian Asset Management, Arnhold & S. Bleichroeder, Emerging Markets Management and State Street Asset Management. BEA Associates and Pareto Partners each manage half of the currency hedging program. The cash equivalents sector consists of a small internally managed account, and a cash-plus program with six managers – RIEM, Twin Capital Management, Independence Investment Advisors, SAJE Asset Management, Bankers Trust Company and Windham Capital Management. At year-end WFNIA and Bridgewater Associates, Inc. were engaged to each manage half of the 7% new allocation to international fixed income. The equity real estate program is managed by Amlis Realty, CIGNA, Copley Institutional, LaSalle Advisors, J.W. O'Connor & Company, MIM Property Services LTD., Dreyfus Realty Advisors, and TA Associates. High yield bonds are managed by Whippoorwill Asset Management. The remainder of the Foundation's venture capital and high yield bond investments, approximately 6% of total assets, are held in illiquid partnerships, which include 18 traditional venture capital partnerships, six LBO funds and two subordinated debt funds.

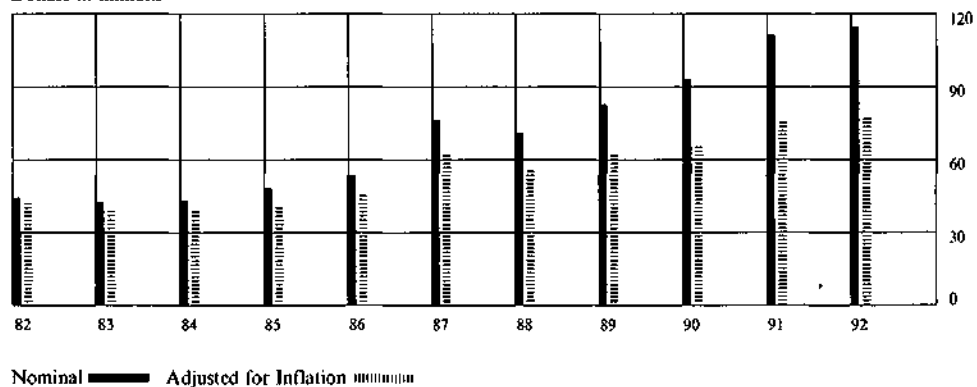
Index (1992=100)



SPENDING

Spending (grants plus general administrative expenses) totaled \$116.6 million in 1992, a 4.8% increase over 1991's \$111.3 million. As the graph below shows, real and nominal spending have increased sharply since 1985. Under the Foundation's budget spending guideline of 5.8% of assets (6.0% until 1992), the increases in spending relate directly to the increase in asset values registered over the period.

Dollars in millions



Report of
Independent Auditors

THE BOARD OF
TRUSTEES
THE ROCKEFELLER
FOUNDATION



WE HAVE AUDITED THE ACCOMPANYING STATEMENT of assets, obligations and principal fund of The Rockefeller Foundation as of December 31, 1992 and 1991, and the related statements of operations and changes in principal fund and of changes in financial position for the years then ended. These financial statements are the responsibility of The Rockefeller Foundation's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with generally accepted auditing standards. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of The Rockefeller Foundation at December 31, 1992 and 1991, and the results of its operations, changes in its principal fund and changes in its financial position for the years then ended in conformity with generally accepted accounting principles.

Ernst & Young
New York, New York
February 25, 1993

Statement of
Assets, Obligations and
Principal Fund

December 31		1992	1991
Dollars in thousands			
ASSETS	Investments (Notes 1 and 2)	\$2,108,983	\$2,151,853
	Cash	16,600	5,806
	Accounts receivable (primarily security sales net of purchases in 1991)	6,741	12,438
	Dividends and interest receivable	7,171	10,391
	Refundable federal excise tax (Note 3)	-	14
	Property, at depreciated cost (Note 4)	1,253	1,451
	Other assets (Note 5)	11,388	8,877
	Total assets	\$2,152,136	\$2,190,830
OBLIGATIONS AND PRINCIPAL FUND	Accounts payable and accrued liabilities (primarily security purchases net of sales in 1992)	\$ 52,210	\$ 12,183
	Federal excise tax payable (Note 3)	248	-
	Deferred federal excise tax (Note 3)	146	3,360
	Appropriations by the Trustees, approved for specific grantees/purposes but not yet paid (Note 6)	68,290	63,535
	Total obligations	120,894	79,078
	Commitments (Notes 1, 2, 5 and 7)		
	Principal fund:		
	Appropriations by the Trustees (Note 6):		
	For allocation to future grantees	52,201	55,007
	Budget for operations and new grants for the following year	119,490	118,700
		171,691	173,707
	Unappropriated	1,859,551	1,938,045
	Total principal fund	2,031,242	2,111,752
	Total obligations and principal fund	\$2,152,136	\$2,190,830

See accompanying notes.

Statement of
Operations and Changes
in Principal Fund

Year ended December 31	1992	1991
Dollars in thousands		
Dividends	\$ 26,535	\$ 28,656
Interest	40,397	58,685
Other income	544	2,241
Net realized gain on sales of marketable securities	145,795	130,150
Total realized investment income	213,271	219,732
Less investment expenses	15,371	9,228
Net realized investment income	197,900	210,504
Less:		
Approved grants and program costs	113,158	102,210
General administrative expenses	5,640	6,587
Provision for federal excise tax (Note 3)	1,908	2,220
	77,194	99,487
Increase (decrease) in unrealized appreciation of marketable securities, net of provision (credit) for deferred federal excise tax-1992: (\$3,214); 1991: \$2,466 (Notes 1 and 3)	(157,704)	120,799
Principal fund at beginning of year	2,111,752	1,891,466
Principal fund at end of year	\$2,031,242	\$2,111,752

See accompanying notes.

Statement of
Changes in Financial
Position

Year ended December 31		1992	1991
Dollars in Thousands			
SOURCES OF CASH	Net realized investment income	\$197,900	\$210,504
	Federal excise tax refund	-	151
	Net change in accounts receivable, dividends and interest receivable, and accounts payable and accrued liabilities	48,944	-
	Total sources of cash	246,844	210,655
APPLICATIONS OF CASH	Net change in accounts receivable, dividends and interest receivable, and accounts payable and accrued liabilities	-	23,682
	Expenditures for grants and operations:		
	Agricultural Sciences	21,941	17,101
	Arts and Humanities	13,467	13,814
	Equal Opportunity	15,980	18,629
	Health Sciences	13,955	12,756
	Population Sciences	13,498	10,825
	Global Environment	7,383	5,248
	African Initiatives	4,995	3,300
	School Reform	6,434	6,735
	International Security	1,222	1,167
	International Philanthropy	227	2,303
	Special Interests and Explorations	4,989	4,864
	International Relations	5	3
	Bellagio Center and Archives	3,614	3,111
	Warren Weaver Fellowships	664	706
	Other	35	-
		108,409	124,244
	General administrative expenditures	7,953	8,011
	Estimated federal excise taxes paid (Note 3)	1,792	2,097
	Net securities transactions exclusive of realized gains	117,896	98,609
	Total applications of cash	236,050	232,961
	Increase (decrease) in cash	10,794	(22,306)
	Cash balance at beginning of year	5,806	28,112
	Cash balance at end of year	\$ 16,600	\$ 5,806

See accompanying notes.

Notes to
Financial Statements

DECEMBER 31, 1992
DOLLARS IN THOUSANDS

NOTE 1
INVESTMENTS

Marketable securities are reported on the basis of quoted market value, and investment income and expenses are reported on the accrual basis. Realized gains and losses are calculated based on the specific identification method for both financial statement and tax return purposes. Limited partnership interests in real estate are reported at appraised or estimated fair value. Venture capital limited partnership interests are reported at fair value.

December 31 Dollars in thousands	1992		1991	
	Cost	Market Value	Cost	Market Value
Marketable securities:				
U.S. and other government obligations	\$ 387,480	\$ 374,152	\$ 312,436	\$ 329,532
Money market funds	297,158	297,158	279,674	279,674
Foreign currency-short-term	3,115	3,720	398	175
Certificates of deposit	-	-	44,422	53,866
Common stock	909,233	965,290	928,871	1,094,663
Corporate obligations	151,072	157,245	136,362	141,833
Other investments	41,517	36,959	6,944	3,911
Preferred stock	12,500	12,500	6,650	6,308
Subtotal	1,802,075	1,847,024	1,715,757	1,909,962
Limited partnerships and similar interests:				
Real estate	182,138	119,083	155,156	111,166
Venture capital	73,284	86,553	68,651	76,597
Other	50,000	56,323	50,000	54,128
Subtotal	305,422	261,959	273,807	241,891
Total	\$2,107,497	\$2,108,983	\$1,989,564	\$2,151,853

As of December 31, 1992, under the terms of various venture capital and real estate limited partnership agreements, the Foundation has commitments to contribute approximately \$86,000 (\$98,000 in 1991) in additional capital over the next ten years.

NOTE 2
FINANCIAL
INSTRUMENTS
WITH OFF-
BALANCE-SHEET
CREDIT OR
MARKET RISK

As a result of its investing strategies, the Foundation is a party to a variety of off-balance-sheet financial instruments. These financial instruments include equity, fixed income and foreign currency futures and options contracts, foreign currency forwards, and interest rate cap and floor contracts. Much of the Foundation's off-balance-sheet exposure represents strategies that are designed to reduce the interest rate and market risk inherent in portions of the Foundation's investment program by hedging physical securities positions with derivative securities. Changes in the market values of these financial instruments are recognized currently in the statement of operations using the mark-to-market method, with corresponding amounts recorded in respective investment categories.

Off-balance-sheet financial instruments involve, to varying degrees, elements of market risk and credit risk in excess of the amounts recorded on the statement of assets, obligations and principal fund. Market risk represents the potential loss the Foundation faces due to the decrease in the value of off-balance-sheet financial instruments. Credit risk represents the maximum potential loss the Foundation faces due to possible non-performance by obligors and counterparties of the terms of their contracts.

Contract amounts represent the full extent of the Foundation's involvement in particular classes of financial instruments. A summary of the gross contract amounts of off-balance-sheet financial instruments with market risk at December 31, 1992 and 1991 follows:

December 31 Dollars in thousands	1992	1991
Equity futures	\$ 331,739	\$ 168,953
Fixed income futures	10,973,360	2,513,513
Foreign exchange futures and forwards	264,994	150,669
Equity index options	217,500	219,000
Interest rate swap contracts	54,000	-
Interest rate cap and floor contracts	-	330,000

Contract amounts are used to express the volume of transactions, but the amounts potentially subject to credit risk are much smaller.

The Foundation intends to close out most open contract positions prior to their respective settlement dates and, thus, the cash receipt or payment associated with each contract is subject only to the change in value of the underlying instrument. The margin cash requirements on deposit for futures contracts were approximately \$32,165 at December 31, 1992 (\$25,646 at December 31, 1991).

Securities sold, not yet purchased (\$429,000 and \$575,000 at December 31, 1992 and 1991, respectively, recorded net in the Foundation's investment accounts), have market risk to the extent that the Foundation, in satisfying its obligations, may have to purchase securities at a higher value than that recorded.

Management does not anticipate that losses, if any, resulting from credit or market risk would materially affect the financial position and statement of operations and changes in principal fund of the Foundation.

NOTE 3
FEDERAL EXCISE
TAX

The Foundation qualifies as a tax-exempt organization under Section 501(c)(3) of the Internal Revenue Code and, accordingly, is not subject to federal income tax. However, the Foundation is classified as a private foundation and is subject, under certain circum-

stances, 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, 1992 and 1991, the Foundation met the specified distribution requirements and was 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.

NOTE 4
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 1992 was caused by additions of \$415 and a decrease of \$613 attributable to depreciation and amortization. Depreciation and amortization totalled \$625 in 1991.

NOTE 5
PENSION PLAN, TRUSTEED SAVINGS PLAN AND POSTRETIREMENT BENEFITS The Foundation maintains a defined benefit pension plan (the "Plan") for regular salaried employees who are at least 21 years old and have completed one year of service or have attained the age of 40. The Plan provides retirement benefits based on years of service and final-average pay, with benefits after retirement subject to increase under a cost-of-living augmentation formula. Plan assets are invested in a diversified portfolio of common stocks and fixed-income securities.

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

Dollars in thousands	1992	1991
Plan assets at fair value	\$64,075	\$58,818
Less projected benefit obligation	(38,828)	(36,799)
Funded status—surplus	\$25,247	\$22,019
Prepaid pension cost included in other assets	\$11,388	\$ 8,877

Program and administrative costs incurred in 1992 and 1991 were reduced by a net pension credit of \$2,511 and \$1,841, respectively.

The projected benefit obligation for the Plan was determined using the assumed discount rate of 8% in 1992 and 1991, 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 \$329 for 1992 and \$269 for 1991.

The Foundation provides certain health care and life insurance benefits for retired employees. Employees are eligible for these benefits when they meet the criteria for retirement under the Foundation's pension plan. The cost of such benefits was approxi-

mately \$982 and \$983 in 1992 and 1991, respectively, of which approximately \$900 and \$870, respectively, was funded through a transfer of excess funds accumulated in the Plan. Postretirement benefits generally are recognized as expense as the related insurance premiums are incurred. In December 1990, Statement of Financial Accounting Standards No. 106 - "Employers' Accounting for Postretirement Benefits Other Than Pensions" (SFAS 106) was issued. The provisions of SFAS 106, which require that the expected cost of providing postretirement benefits be accrued during the years that the employee renders the necessary service, become effective during the year ending December 31, 1995. The Foundation does not expect the adoption of SFAS 106 to have a material adverse impact on its financial position.

NOTE 6 APPROPRIATIONS AND EXPENDITURES Appropriations by the Trustees are considered to be obligations when grants are approved for specific grantees; appropriations not released for specific grantees and the appropriation for the budget for the next year are considered as appropriated principal fund. Administrative costs are charged to operations when incurred.

Appropriations and expenditures for the year are summarized as follows:

Dollars in thousands	Appropriated for specific grantees/ purposes	Appropriated for allocation and next year's budget	Total appropriated
Balance, January 1, 1992	\$ 63,535	\$173,707	\$237,242
Approved grants, and program and administrative costs	118,950	(118,486)	464
Lapses and refunds	(441)	(3,020)	(3,461)
Expenditures for grants and operations	(116,364)	-	(116,364)
1993 budget	2,610	119,490	122,100
Balance, December 31, 1992	\$ 68,290	\$171,691	\$239,981

NOTE 7 LONG-TERM LEASES At December 31, 1992, base rental commitments under noncancellable leases for headquarters office space aggregated approximately \$935 and are payable at approximately \$720 in 1993 and \$215 in 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 \$155 and under the second approximately \$65 during the remaining period of the leases. Rental expense included in the statement of operations was approximately \$1,374 in 1992 and \$1,289 in 1991.

Foundation
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IN MEMORIAM

Willie Edward West
1932-1992
*Will West served the Foundation
as an operations assistant from
1973 until his final illness. We
were inspired by his dedication
to work and the Foundation,
and we loved him for his unflag-
ging good humor, the warmth
of his greetings and conversation
and his obvious zest for life.
We miss him.*

Information for Applicants

THE WORK OF THE ROCKEFELLER FOUNDATION IS in three principal areas: international science-based development, the arts and humanities, and equal opportunity. Within science-based development, the focus is the developing world and emphases are on the global environment; on the agricultural, health, and population sciences; and on a very limited number of special African initiatives. The Foundation also has smaller grant programs in international security and U.S. school reform.

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, seek advice from experts in the field and are expected to travel widely and study extensively, keeping abreast of relevant scholarly and other literature, visiting Foundation-supported projects, and observing programs and projects of potential interest.

Many grants therefore stem from proposals stimulated through 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. The Foundation also receives more than 10,000 unsolicited proposals each year, and while many are declined because they are for purposes outside program guidelines, staff members review the remainder, which are funded on a competitive basis, within budgetary limits.

GRANTS The factors considered in evaluating grant proposals include: the proposed project's potential for accomplishing its objectives and contributing significantly to the "well-being of mankind"; the relevance of the project to the Foundation's programs; the applicant's qualifications and record of achievement; and the extent of the applicant's efforts to secure additional funding from other sources.

FELLOWSHIPS A number of fellowships are announced and awarded annually through specific Foundation programs. These fellowships provide support to individuals for training and for research and other specified projects.

LIMITATIONS

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

In addition, the Foundation does not normally provide general institutional support or endowment. Occasional exceptions are made for organizations or institutions in which the Foundation has played an important creative role, 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 the Foundation seeks 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, the Foundation may ask these institutions for information about their efforts, supported when appropriate, with data on the gender and minority composition of the leadership of the institution.

**REQUESTS AND
APPLICATIONS**

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

- a description of the proposed project of fellowship activity, with clearly stated plans and objectives;
- a comprehensive plan for the total funding of the project during and, where applicable, after the proposed grant period; and
- a listing of the applicant's qualifications and accomplishments and, if applicable, a description of the institutional setting.

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

The Rockefeller Foundation
1133 Avenue of the Americas
New York, N.Y. 10036-6755
USA

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