



# CGIAR NEWS

CONSULTATIVE GROUP ON INTERNATIONAL AGRICULTURAL RESEARCH ■ OCTOBER 2001

## CGIAR'S ANNUAL GENERAL MEETING 2001

This year's Annual General Meeting (AGM) is being held October 29–November 2 at World Bank headquarters in Washington, DC. More than 400 participants have registered.

The AGM, a first for the CGIAR, replaces International Centers Week and the Mid-Term Meeting. The meeting is designed to save costs, increase efficiencies (shorter duration, tighter structure, focused agenda, and electronic circulation of background papers), and streamline decision-making. Daily highlights of the meeting are as follows:

- **October 29:** Reserved for committee meetings, including a meeting of the Interim Executive Council. A special exhibit *We Can Feed the World and Keep It Green* will be launched [see related story on p.2].
- **October 30–31:** CGIAR stakeholders' meeting, including a discussion of the world food situation; a Centers' forum ("Research Impact: Today and Tomorrow"); and briefings on the state of agricultural R&D worldwide, regional priority-setting exercises, the Johannes-

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## NEW FAO-CGIAR INFORMATION FINDER DEVELOPED

Information is not knowledge. For the CGIAR, a knowledge-intensive organization by definition, the challenge is to sustain the fount of agricultural knowledge and ensure that the various streams of information and data generated by its scientists add up to knowledge that helps solve real-world farming problems.

In cooperation with FAO, a "CGIAR Information Finder" has been developed. Available by clicking on <http://waicent.fao.org/CGIAR>, it provides access to a CGIAR database that

can be browsed by Center and thematic area. A work-in-progress, CGIAR Centers and Secretariat collaborated with FAO to develop this tool and are adding data continuously.

In addition, a new effort for global knowledge sharing is gaining ground. With support from the Organizational Change Program, CGIAR librarians and knowledge management professionals are working to develop a knowledge-sharing strategy that better disseminates knowledge and increases access to CGIAR-held knowledge. Priorities include:

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### NAFIS SADIK TO DELIVER 2001 SIR JOHN CRAWFORD MEMORIAL LECTURE



"Our numbers have doubled since 1960 to 6.1 billion," notes the soon-to-be-released *The State of World Population 2001* report from the United Nations Population Fund (UNFPA). More people are using more resources with more intensity—and leaving a bigger "footprint" on the earth—than ever before.

This year's Sir John Crawford Memorial Lecture, will be delivered by Dr. Nafis Sadik on October 31, 2001 at 6 pm in the World Bank's "H" Building Auditorium, 1912 G Street, NW, Washington, DC. A photo ID is required for entry.


Dr. Sadik is Special Adviser to the Secretary General of the United Nations and former Executive Director of UNFPA. Her speech, "Feeding the World, Sustaining the Earth: The Critical Importance of Population Issues," will explore the full import of these numbers on a broad array of significant topics such as poverty, hunger, and environmental protection and call attention to the importance of addressing women's needs and involving them directly in making and implementing development policy.

The lecture, sponsored by the Australian Government, honors the memory of Sir John Crawford, a distinguished civil servant, educator, and agriculturist who was one of the founders of the CGIAR. 

## FINDER *Continued from page 1*

- Joint acquisition of subscriptions and document delivery using ARIEL,
- Development of a CGIAR-wide catalog of library holdings, including serials,
- Development of a directory/database of CGIAR publications and scientific electronic resources,
- Development of a directory/database of CGIAR experts and their specializations, and
- Development of a central CGIAR image database that will include the best images of each Center as well as other pictures (of meetings, staff, logos, and so on).

Excellent progress has been made. Five new information products are available online:

- CGIAR Centers Active Journal Collection — an online inventory of journal subscriptions (available by clicking on <http://ciat-library.ciat.cgiar.org/revistas/revista1.asp>) Task managed by CIAT.
- CGIAR Serials Database — (<http://www.icrisat.org/text/partnerships/srls/srls.asp>). Task managed by ICRIAT.
- CGIAR Core Collection Database — a compendium of historical documents searchable by title, author, date, keywords, type, and other parameters. ([http://search.cgiar.org/search\\_form.asp](http://search.cgiar.org/search_form.asp)). Task managed by CGIAR Secretariat.
- CGIAR Centers Scientific Information Resources — an SQL database of meta-data about Center-produced scientific information that is intended to be used to locate information on a common subject. (<http://132.ipgri.cgiar.org/cginventory>). Task managed by IPGRI.
- CGIAR Library Gateway — a portal page to CGIAR Center libraries and information sources (<http://www-int.cgiar.org/library/cglib.htm>). 



A major highlight of the CGIAR's Annual General Meeting 2001 will be a special exhibit illustrating the theme "We Can Feed the World and Keep It Green," which will be on display in the impressive, 13-story atrium of the World Bank's main complex building.

Leading dignitaries including James D. Wolfensohn, World Bank President, Carole Brookins, World Bank US Executive Director, and Andrew Natsios, USAID Administrator will join Ian Johnson to launch the exhibit at 6 p.m. on October 29.

A large number of Bank staff and special guests, such as ambassadors of member and host countries, members of the U.S. Congress, and other U.S. government officials, World Bank executive directors, and media, are expected to visit the booths to learn how CGIAR research provides real solutions to 21<sup>st</sup>-century problems. In addition to the integrated CGIAR-Future Harvest display and 16 Center displays, the exhibit will highlight six thematic areas.

The CGIAR exhibit runs October 29–November 2. 

## COMINGS AND GOINGS IN THE CGIAR FAMILY

The CGIAR family is joined by a common bond, unified in the continuing fight against poverty, hunger, and environmental degradation. As is true for any family, transitions are inevitable. We must welcome old and new friends, bid farewell to those who are moving on, record achievements, and, sometimes share the burden of sorrow as well.

### Condolences

Two giants of the family – Ralph Cummings, Sr. and John L. Dillon – passed away this year. We applaud their steadfast support to the CGIAR. Their legacies will live on through the Cummings Lab at the Indian Agricultural Research Institute (IARI), and the John L. Dillon Social Science and Aquatic Resources Economics Laboratory at ICLARM, Penang.

### Farewells

S. Baharsjah, IRRI; Ian Bevege, Australia; Lukas Brader, IITA; Christian Castellanet, France, CGIAR NGO Committee (NGOC); Ananda Dalodom, Thailand; Hank Fitzhugh, ILRI; Bruce Howell, Canada; Issa Kalantari, Iran; Tetsushi Kondo, Japan; Peter J. Matlon, UNDP; Inge Nordang, Norway; Rajendra S. Paroda, India; Per Pinstrup-Andersen, IFPRI; Timothy Reeves, CIMMYT; Juan Lucas Restrepo, Colombia; Pedro Sanchez, ICRAF; Jeffrey Sayer, CIFOR; and Emmy Simmons, USAID.

### Welcome

Luis Arango-Nieto, Colombia; Aslak Brun, Norway; Jonathan Conly, USAID; Jorge Mario Diaz, Colombia; Dennis Garrity, ICRAF; Peter Hartmann, IITA; Mahmoud Hojatti, Iran;

*Continued on page 6*

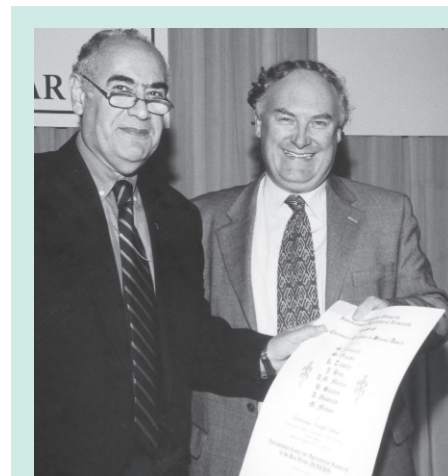
# CGIAR SCIENCE AWARDS 2001

Mobilizing top-quality science, relevant to the special needs of poor, tropical farming communities worldwide is the CGIAR's unique niche. Since its establishment more than three decades ago, recognition and honors for CGIAR scientists and researchers have come from far and wide. Most recently, CIMMYT and IFPRI have garnered the prestigious World Food Prize, winning the CGIAR this much-coveted prize for two consecutive years.

The CGIAR Science Awards program (formerly the CGIAR Chairman's Science Awards) was established in 1996 to honor scientific research excellence and achievements in the CGIAR

System. Every year, five prizes are awarded, each consisting of a certificate and cash prize of \$5,000. After an extensive review of the nominations received from 16 Centers, winners were chosen by a distinguished Evaluation and Selection Panel: Kurt Peters, Chair, CGIAR Committee of Board Chairs; Emil Javier, Chair, CGIAR Technical Advisory Committee; Robert Goodman, Chair, Collaborative Crop Research Program, The McKnight Foundation; and Mauricio Antonio Lopes, Head, Department of Research and Development, Embrapa, Brazil.

The awards will be presented by CGIAR Chairman Ian Johnson during the Annual General Meeting.



2000 CGIAR Science Award to ICARDA for "Outstanding Scientific Article" by S. Ceccarelli et al., "A methodological study on participatory barley breeding," published in *Euphytica*, a leading journal. The article reports on a significant innovation in participatory plant breeding involving farmers in nine Syrian villages.

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### ICRISAT: Hari C. Sharma, Outstanding Scientist

Combating pests that decimate yields and negatively affect the well-being of farm families has been the focus of Hari Sharma's 20-year career. His expertise spans a diverse range of topics, including insect bionomics, host plant resistance, natural pesticides, biotechnology, biocontrol, insect toxicology, and integrated pest management. Hari's work has focused on chickpea, sorghum, and pigeonpea. In a classic case of win-win strategies, his work is helping to increase farm productivity while cutting the use of pesticides, thereby reducing environmental pollution. Dr. Sharma received his academic training at the Indian Agricultural Research Institute (IARI) and has served as a visiting scientist at the University of Wisconsin-Madison and the Queensland Department of Primary Industries, Australia.

### ILRI: Alex Kahi, Promising Young Scientist

Being raised on a crop-and-live-stock farm in the Kenyan highlands has given Alexander Kigunzu Kahi a better appreciation for the challenges confronting smallholder farmers who rely on livestock for income and nutrition. Dr. Kahi, a senior lecturer at Kenya's Egerton University, was an ILRI graduate fellow from 1993 to 2000. In July 2000 he earned a Ph.D. from Hohenheim University, Germany, and graduated *magna cum laude*. "Brilliant" was the term his examiners used in assessing his performance in the oral examination. His research combines genetic and economic analyses and simulation models to assess alternative options in livestock breeding, work that is being

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Editor: Sarwat Hussain  
Published by the CGIAR Secretariat  
Tel: (1-202) 473-8951  
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Design: Iseman Creative, Inc.



## HONORS AND AWARDS

### **CIMMYT**

- David Hoisington, Director, Applied Biotechnology and Bioinformatics Program, and Michael Morris, Assistant Director, Economics Program, won the American Association of Agricultural Economists Award for the best article published in the AAEA's journal *Choices*
- A. Mujeeb-Kazi, Principal Scientist, Wheat Program, was accepted as a Fellow of the Third World Academy of Sciences and a Fellow of the Crop Science Society of America.
- Shivaji Pandey, Director, Maize Program, was accepted as a Fellow of the Crop Science Society of America and the American Society of Agronomy.
- Sanjaya Rajaram, Director, Wheat Program, was awarded the "Padma Shree" by the Government of India (the award is the third highest honor granted to civilians) for raising wheat production in the developing and industrialized world. He also received the Inaugural Crawford Fund Derek Tribe Award for leadership in wheat breeding.
- Surinder K. Vasal, Principal Scientist, Maize Program, won the Chinese Friendship Award (the highest honor accorded by the Chinese Government to a foreign national) for his outstanding contributions to the betterment of conditions in China.
- Evangelina Villegas, Cereal Chemist (retired), was named Mexico's Woman of the Year and given the Lázaro Cárdenas Award of the National Polytechnic Institute for achievements in developing nutritionally enhanced quality protein maize (QPM).

### **CIP**

- CIP and the Universidad Nacional Daniel Alcides Carrión of Oxapampa, Peru, won first prize in the Peruvian CITA-2000 competition for agro-indus-

trial technological innovation (Concurso de Innovación Tecnológica Agroindustrial 2000). The award recognizes their work in developing a rural pilot plant for production of yacon syrup using simple technology.

### **ICARDA**

- Surendra Beniwal, Regional Coordinator, ICARDA-Central Asia and the Caucasus Regional Program and Head of CGIAR Program Facilitation Unit, was elected Honorary Professor of the Kyrgyz Agrarian Academy, Kyrgyzstan.
- Adel El-Beltagy, Director General, was elected "Academician" by the Kyrgyz Agrarian Academy in recognition of his contributions to agricultural research and development of the CGIAR-ICARDA collaborative research activities in Central Asia and the Caucasus.
- Rajendra S. Paroda, newly appointed Head of CGIAR Facilitation Unit and Coordinator of ICARDA's Regional Program for Central Asia and the Caucasus, was conferred Honorary Membership of the Crop Science Society of America.
- M.C. Saxena, Assistant Director General (At-Large), was conferred an honorary doctorate (D.Sc.) by Chandra Shekhar Azad University of Agriculture and Technology, Kanpur, India.
- S.V.R. Shetty, Team Leader, ICARDA/Yemen Joint Project, won the Indian Society of Weed Science Medal in recognition of his contributions to "Eco-friendly Weed Management Options for Sustainable Agriculture."

### **ICLARM**

- Mahfuz Ahmed, Bing Santos, Oyie Umali, Jun Jun Torres (ICLARM), J. Toledo (South East Asian Fisheries Development Center, Aquaculture Department), and N. Lopez (Bureau of Fisheries and Aquatic Resources, Government of Philippines) received the Dr.

Elvira O. Tan Memorial Award for 2001 for their paper "Bangus Fry Resource Assessment in the Philippines." (Bangus, or Milkfish, is the Philippine "national fish.")

- Just Faaland was awarded an honorary doctorate in economics by the University of Malaya.
- Saad Nassar, formerly Director General of the Egyptian Agriculture Research Center, was appointed Governor of Fayoum Governate in Egypt.

### **ICRISAT**

- Andre Bationo, formerly with the Natural Resource Management Program, was decorated with a Commandant à l'ordre du Merite Agricole du Niger, the highest civilian award by the Government of Niger.
- The ICRISAT-China project on strains of peanut viruses, epidemiology, and control of virus diseases in peanut received China's National Award for Science and Technology.
- Anand Kumar, former ICRISAT-Niamey Site Leader, was decorated with a Commandant à l'Ordre du Mérite Agricole du Niger, the highest civilian award by the Government of Niger.
- K.B. Saxena, Pigeonpea Breeder, received China's highest national award for outstanding contribution to the country's economic development for reviving farmers' interest in pigeonpea as a source of fodder, fuel, soil conservation, and food.

### **IFPRI**

- Per Pinstrup-Andersen, Director General, won the 2001 World Food Prize.

### **ILRI**

- Simeon Ehui and his wife Mamou Ehui received Purdue University's Distinguished Agricultural Alumnus Award, the first time such an award has been given to a couple.

## IPGRI

- Pablo Eyzaguirre, Senior Anthropologist, was elected to the Board of the International Society of Ethnobiology.
- Percy Sajise, Regional Director for Asia, the Pacific, and Oceania, was accepted as a Fellow of the World Academy of Art and Science.
- IPGRI was awarded a Gold Medal and the Al-Bassel plaque at the 10th Damascus Invention Exhibition, Syria, for its contributions to the conservation and sustainable use of plant germplasm.

## IRRI

- Mushed Alam, Research Scholar, received the Outstanding Contribution Award from CIGR (International Commission for Agricultural Engineering) for the paper, "Pesticide application techniques of rice farmers in the Philippines and options to improve application and protect the environment" (co-authored with M.A. Bell, M. Mortimer, R. Bakker, E.C. Castro, Jr., and E.B. Razote).
- Rob Bakker, Affiliate Scientist, received the Outstanding Contribution Award from CIGR (International Commission for Agricultural Engineering) for the paper, "Improving productivity in direct-seeded rice: the role of mechanization" (co-authored with J. Rickman and M.A. Bell).
- Roland J. Buresh, Soil Scientist, was named a Fellow of the Agronomy Society of America and a Fellow of the Soil Science Society of America.
- Ron Cantrell, Director General, received the Crop Science Society of America Award for International Service.
- Mike Cohen, Entomologist, and Remy Aguda, Assistant Scientist, Entomology and Plant Pathology (with E.P. Alcantara of the National Institute of Molecular Biology and Biochemistry, University of Philippines-Los Baños and D. Dean of the Ohio State University Department of Biochemistry), won the Philippine Association of Entomologists Best Poster Award during the 32nd Pest Management Council of the Philippines 2001.
- K.L. Heong, Entomologist/IPM Specialist, received a Doctor of Science (D.Sc.) degree by the University of London.
- Gene Hettel, Editor and Head, Communication and Publications Services, won the Bronze Award for Writing (*Lao PDR—The "crown jewel" in rice biodiversity project*) in a specialized publication (the IRRI Web site) from the U.S.-based Agricultural Communicators in Education (ACE).
- James E. Hill, Agronomist and Head, Crop, Soil, and Water Sciences, was named a Fellow of the Agronomy Society of America.
- Joel D. Janiya, Assistant Scientist, Martin Mortimer, Weed Ecologist, James E. Hill, Agronomist, and Carmelo O. Garcia, Researcher, Crop, Soil, and Water Sciences, won the Best Paper Award in Weed Science given by the Weed Science Society of the Philippines, Inc. Collin M. Piggin, ACIAR, co-authored the paper.
- Edwin L. Javier, INGER Coordinator, received the Officer Award for Collaboration from Prime Minister Hun Sen of Cambodia.
- Gurdev S. Khush, Principal Plant Breeder, received multiple honors:
  - Gopalan Oration Award and Gold Medal from the Nutrition Society of India,
  - Special award from the Federation of Crop Science Societies of the Philippines,
  - China International Scientific and Technological Cooperation Award in Beijing,
  - International Cooperation Award from the Deputy Prime Minister of Egypt,
  - (appointment) Honorary Professor of the Chinese Academy of Agricultural Sciences in Beijing, and
  - (appointment) Honorary Professor of Uzbek Rice Research Institute, Tashkent.
- Julian Lapitan, Manager, International Programs Management Office, received


the Honorary Fellow Award from the Crop Science Society of the Philippines.

- Walfrido C. Mendoza, Security Supervisor, was awarded a plaque of recognition by the Association of Safety Practitioners of the Philippines (ASPPI).
- Harold J. Nesbitt, Agronomist and Team Leader, Cambodia-IRRI Australia Project, received the Distinguished Collaboration Award from Prime Minister Hun Sen of Cambodia.
- Mary Grace A. Rayco, General Accounting, was named Girl Scout of the Philippines National Youth Achiever.
- Joseph F. Rickman, Head, Agricultural Engineering and Experiment Station, received the Officer Award for Collaboration from Prime Minister Hun Sen of Cambodia.
- Sant S. Virmani, Plant Breeder, received multiple honors:
  - Fellow of the Crop Science Society of America,
  - Third World Network of Scientific Organizations (TWNISO) Award in Agriculture, and
  - Recipient of the Research Fellow Award for 2001 by the Federation of Crop Science Societies of the Philippines.

## ISNAR

- Francis Idachaba was conferred the Kogi State Merit Award by the Governor of Kogi State, Nigeria.

## WARDA

- Kanayo F. Nwanze, Director General, was bestowed a national honor (Commander in the Ivorian Order of Merit) by the Government of Côte d'Ivoire.
- Patrick Monty Jones, Kouamé Miézan, Sitapha Diatta, and Mark Etsiba were bestowed national honors (Officers in the Ivorian Order of Merit) by the Government of Côte d'Ivoire.
- Delphine Koudou, star of WARDA's "Bintu" video, was made a Knight in the Ivorian Order of Merit. 



## PER PINSTRUP-ANDERSEN WINS 2001 WORLD FOOD PRIZE



Per Pinstrup-Andersen, a citizen of Denmark and Director General of the Wash-

ington-based International Food Policy Research Institute (IFPRI), was awarded the World Food Prize for 2001 for his contributions to the improvement of agricultural research and food policy and to the raising of the status of the poor and hungry all over the world. He is the first agricultural economist to win the prize.

“Dr. Pinstrup-Andersen’s life’s work has been characterized by a deep personal desire to alleviate the suffering of persons without sufficient nutritious food,” said Ambassador Kenneth M. Quinn, President of the World Food Prize Foundation. He was speaking at a simple ceremony held on August 27, 2001, at Grand View College, an educational institution established by Danish immigrants in the 19th century in Des Moines, Iowa.

Pinstrup-Andersen was raised on a farm in Denmark. He studied at the


Danish Agricultural University, receiving a bachelor’s degree in agricultural economics. Motivated by the desire to learn more about global agricultural policy, he continued his education at Oklahoma State University, earning master’s and doctoral degrees. No stranger to the CGIAR, he had worked at CIAT before joining IFPRI. In addition, he has worked at the International Fertilizer Development Center in Alabama and the Royal Veterinary and Agricultural University in Copenhagen, Denmark, as well as in Cornell University’s Food and Nutrition Policy Program.

“This prestigious award is testimony to Per’s achievement of excellence in addressing the problems of hunger and food insecurity in the world,” said Ian Johnson, World Bank Vice President and Chairman of the CGIAR. “His leadership has helped shape the thinking of a new generation of food policymakers around the world.”

Joining the chorus of congratulations, Francisco Reifschneider, Director,


CGIAR, said, “Per is an outstanding economist whose work has addressed one of the most compelling moral dilemmas of our time: the persistence of hunger in a world of plenty.” Reifschneider noted that “The award is a fitting tribute to him [Per], and to IFPRI, for innovative contributions in addressing complex issues of food security, intellectual property rights, and subsidies.”

“Per’s intellectual leadership in the field of food security is widely acknowledged,” said World Bank Rural Development Department Director Robert L. Thompson, adding his support for the nomination. “He [Per] is a man of vision whose work has been instrumental in improving public food policies that benefit the poor and hungry around the world.”

Click on [www.worldfoodprize.com](http://www.worldfoodprize.com), [www.cgiar.org](http://www.cgiar.org), and [www.futureharvest.org](http://www.futureharvest.org) for more information. 

### WELCOME *Continued from page 2*

David Kaimowitz, CIFOR; Angelina Kamba, Zimbabwe; M.A. Hamid Miah, Bangladesh; Peter Matlon, Rockefeller Foundation; Toshinori Mitsunaga, Japan; Mutizwa Mukute, Zimbabwe, NGOC; Patrick Mulvany, UK, NGOC; Frank Pinto, UNDP; Antonio Quizon, Philippines, NGOC; Carlos Seré, ILRI; Alan Schlachter, Canada; Panjab Singh, India; Somsak Singholka, Thailand, and Meryl J. Williams, ICLARM (incoming Chair, Center Directors Committee)

For changes and additions, please send an email to [cgiaar@cgiar.org](mailto:cgiaar@cgiar.org). The list does not include changes expected immediately prior to, or after the Annual General Meeting. 


## Highlighting Centers’ Contributions

*Nourishing a Peaceful Earth: The CGIAR’s Contributions,*

is a new report that encapsulates the collective work of the 16 CGIAR-supported Centers in addressing food security and development issues. The report and CD-ROM will be widely disseminated in the lead-up to next year’s World Summit on Sustainable Development 2002, also referred to as Rio+10.



This issue of “CGIAR News” spotlights outstanding honors and awards received by scientists and researchers for work carried out at the Centers and with CGIAR partners.

For more in-depth coverage of the Center’s work, accomplishments, and impacts, see the e-report “Special Report from the Centers” on the CGIAR website, [www.cgiar.org](http://www.cgiar.org). This e-report will be updated periodically. 

## MEETING *Continued from page 1*

burg Earth Summit, gender and diversity, program initiatives, and the 2001 Sir John Crawford Memorial Lecture [see related story on p. 1].

- **November 1:** Business meeting of the CGIAR (closed). Discussion items include the external reviews of IITA, the Systemwide Livestock Program, financing plans, and proposals on CGIAR reform including the appointment of a CGIAR Executive Council.
- **November 2:** First meeting of the new CGIAR Executive Council (ExCo).

The AGM agenda follows up on the decisions made at the last Mid-Term Meeting, held in May 2001 in South Africa. At that meeting members decided to implement proposals for a dynamic repositioning of the CGIAR to better enable it to face the challenges of the 21st century. The change program is based on four actions:

- Launching of “challenge programs” on major development topics that draw on traditional CGIAR strengths and that elevate the significance of CGIAR research by aligning it more clearly with international development goals and fostering broader research partnerships,
- Transformation of the Technical Advisory Committee into a Science Council to ensure that CGIAR science continues to meet the highest international standards for quality and development relevance,
- Establishment of an Executive Council to streamline decision-making and reduce the number of meetings held each year, and
- Creation of a System Office to bring cohesion through an integrated communication, public awareness, and fund-raising strategy.

Outcomes of the AGM will be posted on the CGIAR Web site, [www.cgiar.org](http://www.cgiar.org), shortly after the meeting.

## CGIAR SCIENCE AWARDS 2001 *Continued from page 3*

adapted for smallholder sheep producers in Africa and Asia. Dr. Kahi is an outstanding example of a young scientist who is devoting his career to solving problems of the poor and building human capital in his home country.

### **CIAT: Outstanding Partnership for Sustainable Land Management of Acid Soil Savannas**

America’s savannas contain much of the earth’s remaining land suitable for new agricultural production. Partnering with researchers from national agricultural research institutes and universities in developed and developing countries, a team from CIAT (R. Thomas, M. Fisher, I. Rao, M. Ayarza, E. Amezcuita, E. Barrios, J. Sanz, and J. Jimenez), together with France’s Institute of Research for Development (IRD), has characterized the agroecology of acid soil savannas, developed sustainable land management practices, and identified indicators of land quality. The work was done over a period of seven years, 1994–2000, and has been instrumental in helping protect this vast but fragile agricultural frontier. A notable spin-off of the collaboration is the training of 51 students and the awarding of 27 bachelor’s, 14 master’s, and 10 doctoral degrees. Seventy-five percent of the degrees were awarded to students from developing countries.

### **IRRI: Outstanding Scientific Support Team**

A team made up of Carlos Casal, Reynaldo de la Cueva, Luisito Caracuel, Julito Talay, Rodolfo Toledo, Alejandro Manio, Juan Alzona, Oscar Gonzales, and Leonida Nazarea contributed to the success of IRRI’s hybrid

rice breeding program. The team—two assistant scientists, a secretary, and five research technicians—have worked with the program for periods ranging from eight years to more than two decades. Their teamwork has facilitated a smooth and continuous supply of new and improved parental lines and hybrids, advancing the frontiers of knowledge about hybrid rice technology. One member of the team, Leonida Nazarea, is a 35-year veteran of IRRI.

### **IRRI: Outstanding Scientific Article**

“A stunning new result,” from “one of the largest experiments ever” was how the *New York Times* described the IRRI and Yunnan Agricultural University partnership. The paper “Genetic diversity and disease control in rice,” published in the prestigious journal *Nature*, demonstrated for the first time that rice blast, a debilitating disease, can be tackled without resorting to heavy use of fungicides. Taking a cue from traditional farmers’ practices, IRRI researchers (Hei Leung, Tom Mew, Paul Teng, and Zonghua Wang), in partnership with Chinese collaborators (Youyong Zhu, Hairu Chen, Jinghua Fan, Yunyue Wang, Yan Li, Jianbing Chen, JinXiang Fan, Shisheng Yang, and Lingping Hu) and Christopher Mundt (Oregon State University), designed a varietal mixture planting scheme in which one row of susceptible glutinous rice was interplanted every four to six rows with blast-resistant, commercially available hybrid rice varieties such as Shanyou 62 or Shanyou 22. The net result was a damping of the rice blast epidemic. 🌱



## CGIAR Chairman

Ian Johnson

## CGIAR Director

Francisco Reifschneider

## Cosponsors

Food and Agriculture Organization of the United Nations

United Nations Development Programme

The World Bank

## CGIAR Members

### Countries

Australia, Austria, Bangladesh, Belgium, Brazil, Canada, China, Colombia, Côte d'Ivoire, Denmark, Egypt, Finland, France, Germany, India, Indonesia, Iran, Ireland, Italy, Japan, Kenya, Korea, Luxembourg, Mexico, Netherlands, New Zealand, Nigeria, Norway, Pakistan, Peru, Philippines, Portugal, Romania, Russian Federation, South Africa, Spain, Sweden, Switzerland, Syria, Thailand, Uganda, United Kingdom, United States of America

### Foundations

Ford Foundation, Kellogg Foundation, Rockefeller Foundation

### International and Regional Organizations

African Development Bank, Arab Fund for Economic and Social Development, Asian Development Bank, European Commission, Food and Agriculture Organization of the United Nations, Inter-American Development Bank, International Development Research Centre, International Fund for Agricultural Development, OPEC Fund for International Development, United Nations Development Programme, United Nations Environment Programme, The World Bank

## CGIAR-SUPPORTED FUTURE HARVEST CENTERS

- **International Center for Tropical Agriculture (CIAT)**  
Cali, Colombia  
Phone: (57-2) 4450000  
[www.ciat.cgiar.org](http://www.ciat.cgiar.org)
- **Center for International Forestry Research (CIFOR)**  
Bogor, Indonesia  
Phone: (62-251) 622 622  
[www.cifor.cgiar.org](http://www.cifor.cgiar.org)
- **International Center for the Improvement of Maize and Wheat (CIMMYT)**  
Mexico City, Mexico  
Phone: (52-5) 804 2004  
[www.cimmyt.cgiar.org](http://www.cimmyt.cgiar.org)
- **International Potato Center (CIP)**  
Lima, Peru  
Phone: (51-1) 349-6017  
[www.cipotato.org](http://www.cipotato.org)
- **International Center for Agricultural Research In the Dry Areas (ICARDA)**  
Aleppo, Syrian Arab Republic  
Phone: (963-21) 2213433  
[www.icarda.cgiar.org](http://www.icarda.cgiar.org)
- **The World Fish Center (International Center for Living Aquatic Resources Management – ICLARM)**  
Penang, Malaysia  
Phone: (60-4) 626-1606  
[www.cgiar.org/iclarm](http://www.cgiar.org/iclarm)
- **International Centre for Research in Agroforestry (ICRAF)**  
Nairobi, Kenya  
Phone: (254-2) 524000  
[www.icraf.cgiar.org](http://www.icraf.cgiar.org)
- **International Crops Research Institute for the Semi-Arid Tropics (ICRISAT)**  
Patancheru, Andhra Pradesh, India  
Phone: (91-40) 3296161  
[www.icrisat.org](http://www.icrisat.org)
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