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NAST

Annual Report

1995

1996

NATIONAL ACADEMY OF SCIENCE AND TECHNOLOGY
Republic of the Philippines

Alatim, Taguig, Metro Manila

NAST

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NATIONAL ACADEMY OF SCIENCE AND TECHNOLOGY
Republic of the Philippines
Bicutan, Tagig, Metro Manila

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The National Academy of Science and Technology (NAST), the recognition and advisory body on science and technology, presents this annual report for the Calendar Year 1995.

A handwritten signature in black ink, appearing to read 'Conrado S. Dayrit'.

CONRADO S. DAYRIT, M.D

President

29 February 1996

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NATIONAL ACADEMY OF SCIENCE AND TECHNOLOGY

1995 ANNUAL REPORT

The Academy reports its accomplishments for the calendar year 1995 in pursuit of its mandated functions of recognition, advisory, and establishment of international linkages.

I. RECOGNITION FUNCTION

1.1 Newly Elected Academicians

The Academy elected three new Academicians -Dr. Ledivina V. Cariño, Professor and Dean, College of Public Administration, at the University of the Philippines Diliman, Quezon City; Dr. Raul V. Fabella, Professor of Economics, School of Economics, University of the Philippines Diliman, Quezon City; and Dr. William G. Padolina, Secretary of the Department of Science and Technology, Bicutan, Tagig, Metro Manila.

Dr. Ledivina V. Cariño was elected Academician for outstanding work and accomplishments in the field of public administration, political science, and sociology which spanned a range of issues and approaches in development studies from rural to urban development, from local autonomy to national governance, from bureaucratic corruption to the imperatives of civil service, and from participatory development models and approaches to a focus on the elite.

Dr. Raul V. Fabella was selected for his pioneering work on novel analytic constructions useful for problems in economics. His introduction of subsymmetric sets resulted in extending the reach of the celebrated Nash bargaining solution to more egalitarian (Rawlsian) grounds. He also proposed the Olson ration which enriches the rent-seeking paradigm and derived and applied the debt-adjusted real exchange rate which enlarges the pool of relevant indicators for exchange rate policies.

Dr. William G. Padolina's career is marked by outstanding accomplishments as a researcher, educator, and science R & D administrator. His researches in plant chemistry have led to the isolation, structure elucidation, and identification of new sesquiterpene lactones, compounds which are useful as genetic markers in understanding the evolution of plants where these compounds occur. His investigations on the coconut have been on the synthesis and development of diverse products which have proved important in revitalizing the industry. He is best known for his leading role in bringing biotechnology to its present status as one of the principal areas of active research and a major discipline in tertiary education. Dr. Padolina is now tasked with the overall management of science and technology concerns in the country.



New Academicians Fabella, Cariño, and Padolina take their oath before NAST President Acad. Conrado Dayrit (left).

1.2 Benefits of Academicians

a. The Academy supported thirteen (13) Academicians as research fellows. Refer to Table 1.

b. NAST gave travel assistance to twelve (12) Academicians and the Executive Director who attended and participated in different scientific activities abroad. See Table 2.

c. The Secretariat coordinated the 100th birthday celebration of National Scientist Encarnacion Alzona at the Medical Center Manila Auditorium on 25 March. Dr. Serafin D. Quiazon, Executive Director of the National Historical Institute and Dr. Amelia C. Ancog, Undersecretary, representing Dr. William G. Padolina, Secretary of DOST, gave the messages.

d. NAST granted publication assistance to Acad. Benito S. Vergara for his books "Philippine Ornamental Plants II: Flowering Herbs" and "Philippine Ornamental Plants III: Flowering Shrubs," and Acad. Clare R. Baltazar for "An Inventory of Philippine Insects Vol. III (Order Hymenoptera)."

1.3 The Outstanding Young Scientist Awardees of 1995

The National Academy of Science and Technology gave the 1995 Outstanding Young Scientist Awards to ten talented young scientists, namely, Jose Ma. P. Balmaceda, Ph. D. (Mathematics); Antonio Carlos Laurena, Ph.D. (Agricultural Chemistry); Maribel L. Dionisio-Sese, Dr. Sc. (Plant Physiology); Merlyn S. Mendiolo, Ph. D. (Genetics); Allan Benedict I. Bernardo, Ph.D. (Psychology); Fidelina B. Natividad-Carlos, Ph.D. (Economics); Randy A. Hautea, Ph.D. (Plant Breeding); Zenaida N. Ganga, Ph.D. (Plant Breeding); Abundio A. Balgos, M.D. (Pulmonary and Internal Medicine); and Armando C. Crisostomo, M.D. (Colon and Rectal Surgery). Refer to Table 3.



Standing from left: Armando C. Crisostomo, Abundio A. Balgos, Zenaida N. Ganga, Randy A. Hautea, Fidelina N. Carlos, Allan Benedict I. Bernardo, Merlyn S. Mendiolo, Maribel D. Sese, Antonio C. Laurena, Jose Ma. Balmaceda.

Sitting from left: Ms. Luningning E. Samarita, Executive Director; Dr. Jose O. Juliano, Academician and Secretary; Dr. Conrado S. Dayrit, Academician and President; Dr. Dolores A. Ramirez, Academician and Vice-President; Dr. Perla D. Santos-Ocampo, Academician; and Fr. Bienvenido, S.J., Academician.

1.4 The 1995 NAST-TWAS Science Prize Awardee

Antonio Carlos Laurena, Professor at the Institute of Plant Breeding, UPLB, is the 1995 NAST-TWAS Science Prize Awardee in recognition of his outstanding contributions in the field of plant biochemistry and agricultural chemistry, particularly his work on the biochemical mechanism of resistance of the tomato plant against bacterial wilt caused by *Pseudomonas solanacearum*.

1.5 The Outstanding Published Paper Award (OPPA) and the Outstanding Publication Award (OPA)

To encourage scientists to publish their research results in Philippine scientific journals as well as to give local journals a chance to flourish and improve in quality, the Outstanding Published Paper (OPPA) and the Outstanding Publication (OPA) awards are given annually.

The awarding ceremonies for the new Academicians, Outstanding Young Scientists, the NAST-TWAS Science Prize awardee, Outstanding Published Paper and Outstanding Publication awardees were the highlights of the opening of the 17th Annual Scientific Meeting. Refer to Tables 4 and 5.

1.6 ASEAN S & T Awards

The National Academy of Science and Technology, upon request of the Department of Science and Technology, invited nominations and undertook the selection of the candidates for the ASEAN Science Meritorious Service Award, the ASEAN Outstanding Scientist and Technologist Award, and the ASEAN Young Scientist and Technologist Award.

The screening committee selected Dr. Emil Q. Javier, President of the UP System as the Philippines' nominee for the ASEAN Science Meritorious Service Award; Dr. Rafael D. Guerrero III, Director of PCAMRD as nominee for the ASEAN Outstanding Scientist and Technologist Award; and Dr. Eliezer A. Albacea as nominee for the ASEAN Young Scientist and Technologist Award.

The final screening was made in Bangkok with Acd. Ernesto O. Domingo, Acd. Magdalena C. Cantoria, and DOST Undersecretary Estrella F. Alabastro representing the Philippines in the panel of judges. The winners were honored during the celebration of the 4th ASEAN S&T Week on August 29, 1995.

1.7 Mobilization of OYS Awardees

The Academy, in coordination with the Department of Science and Technology, continued and strengthened the project "OYS on the Go" where awardees are given financial assistance to do research work. Refer to Tables 6 and 7.

A survey of OYS awardees was conducted by the Secretariat to formulate plans for the mobilization of the OYS in order to encourage them to continue their outstanding research efforts.

1.8 Media Exposure

Academicians and NAST awardees were featured in radio interviews. Refer to Table 8.

2. ADVISORY ACTIVITIES

2.1 Guidelines for Researchers on Ethics and Procedures

The Guidelines for Researchers on Ethics and Procedures has been printed and disseminated to research directors and presidents of all state universities and colleges as well as directors of research institutions in the Philippines.

2.2 17th Annual Scientific Meeting (ASM)

The 17th Annual Scientific Meeting of the Academy was held on July 12 and 13, 1995 at the Philippine International Convention Center in Manila. The theme of the meeting was "Ethics and Politics of Public Service" and the keynote speaker was Mrs. Patricia A. Sto. Tomas, former Commissioner of the Civil Service Commission. Four plenary papers were presented and a panel discussion was conducted by the Presidents of the five leading universities in Metro Manila. Refer to Table 9.



Acad. Ruben Villareal (left) presents the ASM resolutions to Commissioner Corazon Alma de Leon of the Civil Service Commission (right). Looking on is Acad. Conrado Dayrit (center).

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About 87 poster papers were approved for presentation out of 120 submitted. Seventy-one were exhibited during the meeting. Refer to Table 10.

The ASM Program Committee decided to give cash awards to the best posters in each division from funds solicited from various donors. The best posters from the divisions were awarded five thousand pesos each. Refer to Table 10.

The members of the ASM Program Committee are: Acd. Jose O. Juliano, Chairperson; Acd. Dolores A. Ramirez, Co-Chairperson; Acd. Gelia T. Castillo, Acd. Mercedes B. Concepcion, Acd. Ramon F. Abarquez, Jr., Acd. Teodulo M. Topacio, Jr., Acd. Salcedo L. Eduardo, Acd. Evelyn Mae T. Mendoza, Acd. Perla D. Santos-Ocampo, Acd. Edgardo D. Gomez, and Acd. Ledivina V. Cariño.



DOST Secretary and Acd. William G. Padolina and Acd. Dayrit cut the ribbon opening the poster session. (L-R) Executive Director Samarita, Acd. Dayrit, Acd. Juliano, Acd. Padolina, Acd. Orillo, and Acd. Villareal.



Acad. Dayrit places the ribbon for the Best Poster. (L-R) Acad. Dayrit, Acad. Velasco, Dr. Alicia Aguinaldo, Acad. Santos-Ocampo, and Executive Director Samarita.

2.3 Science Information Fora

NAST supported the multisectoral workshop on "Hypertension Control: Setting an Agenda for Multisectoral Collaboration" on 12 August 1995 at the Development Academy of the Philippines.

A Science Information Forum on the Semiconductor and Electronics Industry was held on August 15 from 10 a.m. to 1 p.m. at the Casino Español. The main speaker was Mr. Dindo Tipon, Secretary of Semiconductor and Electronics Industry Foundation, Inc., and reactors were Engr. Cesar Mendigo of BOI, DTI; Dr. Manalo G. Mena of the National Engineering Center, UP Diliman; Miss Virginia Novenario of PCASTRD; Mr. Romy Certeza of SEIFI; and Engr. Rey Esguerra of DTI. Acad. Jose O. Juliano was moderator and emcee. Several news reporters and writers participated in the discussion of the semiconductor and electronics industry problems.

The Academy co-sponsored with the UP Marine Science Institute a "Mini-symposium on the Understanding of Tropical Marine Productivity and Harmful Algal Blooms" on 6 September 1995 from 10 a.m. to 4 p.m. at the Seminar Room, Marine Science Institute, UP

Diliman. A number of papers on Red Tide were presented. Among the audience were reporters of local newspapers and radiostations.

On 14 September 1995, the Academy co-sponsored with the National Museum another Science Forum - "Biosprospecting: Perspective from a Pharmaceutical Company" at the DOST Executive Lounge from 10 a.m. to 1 p.m.. The speaker was Dr. Stephen R. King of the Shaman Pharmaceuticals, San Francisco, California. Participants were mostly from the pharmaceutical and health sectors. Acd. Alfredo V. Lagmay moderated the open forum and Dr. Fabian M. Dayrit was the rapporteur.

The Academy co-sponsored with the Philippine Society for Biochemistry and Molecular Biology the "Seminar on the Applications of Biochemistry and Molecular Biology in the Philippines Towards Global Competitiveness" on 20 September 1995 at the University of Sto. Tomas.

2.4 Executive Order No. 247

The draft Executive Order No. 247 on biosprospecting otherwise known as "Prescribing guidelines and establishing a regulatory framework for the prospecting of biological and genetic resources, their by-products and derivatives, for scientific and commercial purposes; and for other purposes" was signed by President Ramos on 18 May 1995.

The Inter-Agency Committee (IAC) has been set up and Dr. Estrella A. Alabastro, Undersecretary for Research and Development, is the Department of Science and Technology representative and co-chairperson of the Committee. Her permanent alternate is Dr. William A. Dar of PCARRD. Dr. Dolores A. Ramirez of the Institute of Plant Breeding, UPLB, and Dr. Fabian M. Dayrit of the Ateneo de Manila University are the representatives of the Academe. Dr. Saturnina C. Halos of UP Diliman is the permanent alternate for Dr. Ramirez.

The Inter-Agency Committee met for the first time last September 25, 1995 and took up the implementing rules and regulations, which were earlier formulated by an Ad Hoc Committee, in which members of the NAST staff participated.

2.5 Speakers Bureau

Two OYS awardees, Dr. Cynthia Rose B. Bautista and Dr. Ma. Cecilia G. Conaco of UP Diliman gave lectures in a Seminar conducted by the Institute of Fisheries Policy and Development Studies, College of Fisheries, UP Visayas, Miag-ao, Iloilo, on 19 July

1995 under the Experts Pool Program of the Technology Application and Promotion Institute (TAPI).

NAST President Conrado S. Dayrit participated in the 11th Annual Science Conference of the Federation of Crop Science Society of the Philippines, April 23-29, 1995, at the Siliman University in Dumaguete City with the theme "Philippine Crop Science and Technology: Spearheading Global Competitiveness."

Acad. Alfredo V. Lagmay gave an inspirational talk before students of the Philippine Union College on November 15, 1995.

Acad. Melecio S. Magno lectured on global warming in Southern Luzon Polytechnic College in Lucban, Quezon in June 1995.

2.6 National Science Heritage Center

The establishment of a National Science Heritage Center is being pursued. A group consisting of Acad. Dolores A. Ramirez, Vice President, Acad. Evelyn Mae T. Mendoza, and Miss Luningning E. Samarita, Executive Director, visited and toured several science museums in the United Kingdom, Germany, and US in October. The same team also visited Australia for this purpose.

The team recommended the strengthening of the National Science Museum Network and the creation of the National Science Heritage Center to showcase the achievements of the Filipino scientists.



Acad. Dolores A. Ramirez, NAST Vice President, confers with an official of a museum in Australia in connection with NAST's plan of building a National Science Heritage Center.

2.7 National Botanic Garden (NBG)

A site for the proposed National Botanic Garden has been identified, i.e., the area inside Mt. Palay-Palay National Park in Ternate, Cavite, which is currently leased to the Philippine Botanical and Zoological Garden Society.

A meeting was held at the Shangri-La Plaza Hotel on August 14, 1995 to discuss the prospect of venture between the Philippine Botanical and Zoological Garden Society (PBZGS), National Museum (NM), National Academy of Science and Technology (NAST), Department of Tourism (DOT), and Department of Environment and Natural Resources (DENR). Representing PBZGS was Ramon Luna, while NAST was represented by Acd. Conrado S. Dayrit, Acd. Jose R. Velasco, Acd. Magdalena C. Cantoria, and the Executive Director, Luningning E. Samarita, and the National Museum by Dr. Domingo A. Madulid.

NAST agreed to help in seeking financial assistance for some aspects of the project and in contacting the DOT and other agencies of the government to promote the NBG. Dr. Domingo A. Madulid, Curator of the Philippine National Herbarium of the National Museum, is coordinating the activities of the National Botanic Garden Project.

2.8 Progress Report on the Roundtable Discussions of Mega Issues

The National Academy of Science and Technology and the University of the Philippines through the UP Center for Integrative and Development Studies (UP-CIDS) initiated in June 1995 a project that will bring together experts in order to sharpen the understanding of mega issues facing the country today and help formulate a range of policy alternatives and viable strategies to address these problems. The areas covered and the convenors are as follows:

<i>Areas</i>	<i>Convenors/Experts</i>
1. Science Information Management	Dr. William Torres National Steel Corporation Mrs. Lourdes T. David UP College of Science
2. Science Education and Telecommunication	Dr. Milagros D. Ibe UP Institute of Science and Mathematics Education Department Dr. Ester B. Ogena Science Education Institute

- | | |
|-------------------------|--|
| 3. Venture Capital | Dr. Rafael A. Rodriguez
UP College of Business Administration |
| | Prof. Fortunato T. dela Peña
UP Institute of Small Scale Industries |
| 4. Transportation | Dr. Reynaldo B. Vea
UP College of Engineering |
| 5. Housing | Dr. Benjamin V. Cariño
UP School of Urban and Regional Planning |
| 6. Flood Control | Dr. Peter P.M. Castro
UP National Hydraulics Research Center |
| | Dr. Leonardo G. Liongson
UP National Hydraulics Research Center |
| 7. Water Supply Problem | Dr. Angel A. Alejandrino
UP National Hydraulics Research Center |
| | Dr. Zenaida B. Catalan
UP Los Baños |
| 8. Waste Management | Dr. Leandro A. Vilorio
UP School of Urban and Regional Planning |
| | Dr. Ma. Lourdes G. Rebullida
UP Manila |

2.9 Organization of Roundtable Discussions (RTDs)

The RTDs for each of the areas will be conceptualized by a Convenor or Convenors together with a core of experts. It is highly probable that the discussion in each RTD will take off from one or two commissioned papers to be prepared by the Convenor, the core, or other experts.

The output of the RTDs (e.g. policy briefs, issue papers, RTD proceedings) will be published and packaged for the different sectors.

3. INTERNATIONAL AND NATIONAL LINKAGES

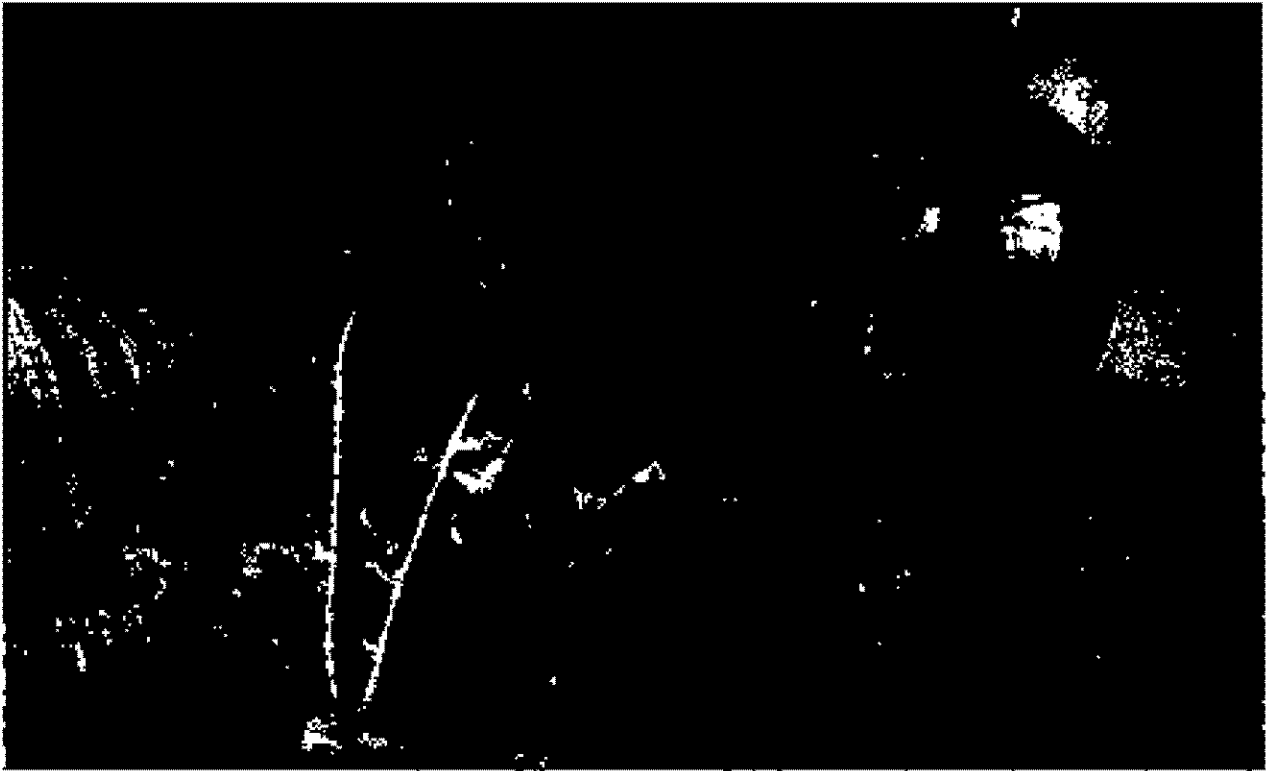
3.1 Existing and Prospective Linkages

The Academy continues collaboration with the Third World Academy of Sciences (TWAS), the Federation of Asian Scientific Academies and Societies (FASAS), International Network of Scientific Organizations (INSO), Chinese Academy of Sciences (CAS), the Royal Society of London (RSL), the German Research Society (DFG), the Indian National Science Academy (INSA), and the American Association for the Advancement of Science (AAAS).

Linkage with the Australian Academy of Science is being explored through a team composed of Acd. Dolores A. Ramirez, Acd. Evelyn Mae T. Mendoza, and Executive Director Luningning E. Samarita who went to Australia for this purpose.



Acad. Conrado Dayrit, incoming FASAS president, poses with outgoing president Yan Dong Sheng, founding president Prof. A.K. Sharma, and Mrs. Sharma during a FASAS Council meeting.



Acad. Filomena Campos and Acad. Conrado Dayrit during the TWAS Fifth General Conference in Abuja, Nigeria in October 1995.

3.2 International Conference on Water Resource Management

The International Conference on Water Resource Management is being arranged under NAST, DFG, and FASAS.

3.3 Exchange Visitor

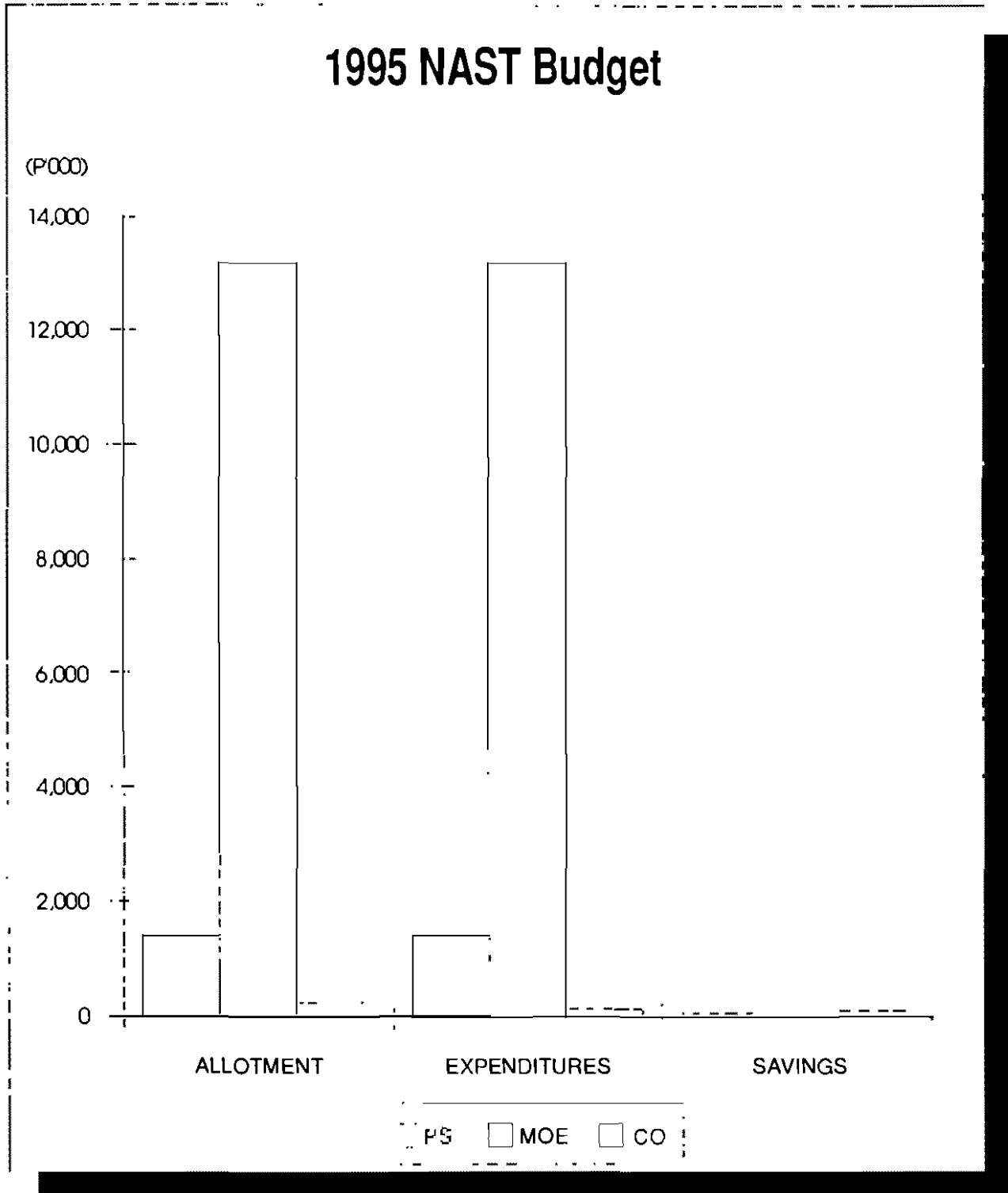
An Indian national, M. Sakthivel, attended the Training Course on Fish Health Management conducted by SEAFDEC in Tigbauan, Iloilo, last May under the NAST-Indian National Science Academy (INSA) memorandum of agreement.

3.4 Exchanges of Information Materials

NAST continues the exchange of information materials with libraries here and abroad. NAST Specialist Library has a total of 300 exchange addressees, 50 of which are foreign. On the average, the library receives 100 publications every year.

4. FINANCIAL MATTERS

4.1 1995 Budget



5. ADMINISTRATIVE MATTERS

5.1 Officers

Acad. Conrado S. Dayrit, M.D.	- <i>President</i>
Acad. Dolores A. Ramirez, Ph.D.	- <i>Vice President</i>
Acad. Jose O. Juliano, Ph.D.	- <i>Secretary</i>
Acad. Filomena F. Campos, Ph.D.	- <i>Executive Council Member</i>
Acad. José Encarnación, Jr., Ph.D.	- <i>Executive Council Member</i>
Acad. Alfredo V. Lagmay, Ph.D.	- <i>Executive Council Member</i>
Acad. Faustino T. Orillo, Ph.D.	- <i>Executive Council Member</i>

5.2 Secretariat

Miss Luningning E. Samarita - *Executive Director*

Administrative Services Division

Technical Services Division

Miss Rosemarie S. Espino
Administrative Officer V
Mrs. Zenaida T. Mapua
Accountant III
Mrs. Chona S. Santos
Cashier III
Mr. Eliseo D. Raganit
Utilityman
Mr. Roberto N. Medina
Driver

Mr. Redocindo L. Santillan
Information Officer V
Mrs. Rowena V. Briones
Information Officer III
Miss Carmina L. Paner
Information Officer II
Vacant
Stenographer
Richard Apuyan
Special Fund

5.3 Training Programs/Seminars Attended by the Staff of the Secretariat

Miss **Luningning E. Samarita** participated in the Workshop on Overcoming Skills Shortages at the Century Park Sheraton, Manila, May 10-11, 1995.

Miss **Rosemarie S. Espino** completed Effective Management Communication at the Development Academy of the Philippines, March 9-11, 1995 and the Training on Executive Management and Leadership at the Center for Policy and Administrative Development, College of Public Administration, UP Diliman, Quezon City, October 9-13, 1995.

Mrs. **Chona S. Santos** attended the seminar on Property and Management at the State Accounting and Auditing and Development Office (SAADO), COA, Diliman, Quezon City, April 17-28, 1995.

Mrs. **Zenaida T. Mapua** attended the Distance Learning Program of the Civil Service Commission, November 29, 1995-February 21, 1996.

Mr. **Roberto N. Medina** attended a seminar for drivers.

Mr. **Redocindo L. Santillan** participated in the crafting of the Complan on STAND organized by the STII, DOST, February 22-24, 1995 at the Riverside Resort, Calamba, Laguna; attended the Mini-Symposium on the Understanding of Tropical Marine Productivity and Harmful Algal Blooms, Marine Science Institute, UP Diliman; participated in the Seminar/Workshop on Advocacy for Science and Technology conducted by the Philippine Information Agency, Antipolo, October 4-6, 1995; completed the Training Program on Executive Management and Leadership, October 9-13, 1995 at the Center for Policy and Administrative Development, College of Public Administration, UP Diliman; and completed the requirements for the JET-STREAM, November 6-24, 1995 at the Civil Service Commission, National Capital Region.

Mrs. **Rowena V. Briones** completed News and Feature Writing at the Asian Institute of Journalism, Communication Foundation for Asia, Ramon Magsaysay Blvd., Sta. Mesa, Manila, January 18-20, 1995, and attended the 2nd National Convention of Government Organization for International Technology (GO-IT) Professionals at Montebello Resort Hotel, Cebu City, December 7-9, 1995.

Miss **Carmina L. Paner** participated in the SciNET Seminar -Workshop "Familiarization, Access, and Providing Information Services in the PhNet and Internet", October 25-27, 1995, at the Institute of Computer Science, UPLB, College, Laguna.



The NAST Secretariat

Table 1
1995 RESEARCH FELLOWS AND THEIR PROJECTS

ACADEMICIAN	PROJECT	DURATION
Filomena F. Campos Alfredo V. Lagmay	Integrated Report on the Annual Scientific Meetings of 1991, 1992, 1993, and 1994	Jan. - 1 July 1995 Extended
Salcedo L. Eduardo	Guide to the Collections of Philippine Type Specimens of Parasitic Protozoa and Helminths	April 1995 - March 1996
José Encarnación, Jr.	On Two Long Run Models	June 1994 - 31 May 1995
Edito G. Garcia	Development of an Antipathology and Antitransmission Vaccine Against <i>Schistosoma japonicum</i> Infectious Based on Anti-embryonation Immunity	March 1995 - 31 Oct. 1995
Melecio S. Magno	Science and Technology for Development in the Philippines - What Individual Filipino Scientists or Engineers Can Do	Jan. - 31 Dec. 1995
Fe del Mundo	Trends in the Health and Nutrition of Filipino Children (Birth to 19 years old) in the Decade 1984-1993	April 1995 - 31 March 1996
Evelyn Mae T. Mendoza Dolores A. Ramirez	Writing of Monograph "The Macapuno Mutant Coconut"	Sept. 1994 - 31 Aug. 1995
Clare R. Baltazar	Inventory of Philippine Insects Vol. IV (Order Lepidoptera)	June 1995 - 31 May 1996
Alfredo V. Lagmay	Psychology in the Philippines and Other Matters: Notes and Reflections	Oct. 1995 - 30 Sept. 1996
José Encarnación, Jr.	A Reconsideration of the Aggregate Economic Model: A Research Proposal	June 1995 - 31 May 1996
Faustino T. Orillo	Reforestation	July 1995 - 31 Nov. 1995
Benito S. Vergara	Review of Literature for the "Philippine Science Heritage Center"	May 1995 - 28 Feb. 1996

**Table 2
ACADEMICIANS GIVEN TRAVEL ASSISTANCE**

NAME	PURPOSES
Filomena F. Campos	Attended the 82nd Indian Science Congress, the Diamond Jubilee of INSA, and the FASAS Executive Council Meeting in Calcutta and New Delhi, January 3 to 10, 1995.
Magdalena C. Cantoria	Presented a paper at the 2nd Symposium on the Family Zingiberaceae at Guangzhou, China, May 9-12, 1995.
Ramon F. Abarquez, Jr.	Attended the Joint WHO/WHL Consultation on the Patient Education Project and participated in the World Congress on Hypertension Control in Ottawa, Canada, June 25-27, 1995.
Edgardo D. Gomez	Presented a paper on the Coastal Zone '95, Florida, USA, July 17-22, 1995.
Ruben L. Villareal	Attended the Annual Meeting of the American Society of Horticultural Sciences and visited the experimental stations in Montreal and Quebec, Canada, July 30 to August 8, 1995.
Teodulo M. Topacio, Jr.	Official representative to the 25th World Veterinary Congress and the 9th FAVA Congress in Yokohama, Japan, September 3-9, 1995.
Conrado S. Dayrit	Official representative to the 5th General Conference of the Third World Academy of Sciences in Abuja, Nigeria, September 17-22, 1995. Official representative to the Inauguration Ceremony of the Academy of Sciences of Malaysia in Kuala Lumpur, September 8-9, 1995. Official representative to the FASAS Council Meeting and the ASTC-95 (Asian Science and Technology Congress 1995) in Kuala Lumpur, December 5-8, 1995.
Evelyn Mae T. Mendoza	Attended and presented a poster paper at the 7th Federation of Asian and Oceanian Biochemists and Molecular Biologists Congress in Sydney, Australia, September 24-29, 1995.
Dolores A. Ramirez Evelyn Mae T. Mendoza Luningning E. Samarita	Visited museums in Germany, United Kingdom, and USA to gather information for the Academy's projected National Science Heritage Center, October 16 to November 7, 1995.
Ernesto O. Domingo	Attended the initial meeting of the Board of Judges for the ASEAN Outstanding Scientist and Technologist Award, June 19, 1995 in Bangkok, Thailand.
Magdalena C. Cantoria	Represented the DOST in the panel of judges for ASEAN Young Scientist and Technologist Award and attended the closing ceremonies of the Fourth ASEAN Science and Technology Week (FASTW), August 26-31, 1995 in Bangkok. Attended the Conference on Biotechnology and Biodiversity, August 28-29, 1995 in Bangkok. Visited laboratories and observed techniques and methods of testing for genotoxicity of extracts of medicinal plants, methods of analysis of volatile oils from plants, and standardization of botanical drugs, August 31 - September 30, 1995 in Halle, Hamburg, and London.

Table 3
1995 OUTSTANDING YOUNG SCIENTISTS AND THEIR SIGNIFICANT
CONTRIBUTIONS TO SCIENCE

AWARDEE	EDUCATIONAL ATTAINMENT	MAILING ADDRESS	SIGNIFICANT CONTRIBUTIONS TO SCIENCE
Jose Maria P. Balmaceda	Ph.D. (Mathematics)	Dept. of Mathematics, CS UP Diliman, Quezon City Tel # 98-24-71 to 79 Local 7710-14	Achievements in the field of algebraic combinations - on the subject of association schemes, a research area which unifies algebraic codes, graphs, designs, and finite geometries.
Antonio Carlos Laurena	Ph.D. (Agricultural Chemistry)	Institute of Plant Breeding, CA UPLB, College, Laguna Tel # (109) 2298	Outstanding contributions in the field of plant biochemistry and agricultural chemistry, particularly on biochemical mechanisms of resistance of the tomato against bacterial wilt caused by <i>Pseudomonas solanacearum</i> .
Maribel L. Dionisio-Sese	Dr. Sc. (Plant Physiology)	Institute of Biological Sciences CAS, UPLB, College, Laguna Tel # (109) 3397	Significant contributions in plant physiology, particularly studies on carbonic and anhydrase activity in free-living fresh-water microalgae and in <i>Prochloron</i> , a marine symbiotic microalga, of which she is the leading authority in the Philippines.
Merlyn S. Mendiolo	Ph.D. (Genetics)	Institute of Plant Breeding, CAS UPLB, College, Laguna Tel # (109) 3368	The identification of the post-fertilization barriers in the interspecific hybrids between the three <i>Vigna</i> species (<i>mungo</i> , <i>radiata</i> , <i>glabrescens</i>) and their cytogenetic systems.
Allan Benedict I. Bernardo	Ph.D. (Psychology)	Dept. of Psychology, CSSP UP Diliman, Quezon City Tel # 99-27-28	The roles of language and other contextual factors in the development of higher-order cognitive processes and representations particularly in the area of mathematical cognition that provide scientific bases for rationalizing educational practice and reform.
Fidelina B. Nathidad-Carlos	Ph.D. (Economics)	School of Economics UP Diliman, Quezon City Tel # 98-96-86	Contributions on the probabilities of intervention in the exchange rate market and the effects that intervention has depending on whether the cause of the exchange rate disturbance is monetary policy or fiscal policy.

Table 3 cont..

AWARDEE	EDUCATIONAL ATTAINMENT	MAILING ADDRESS	SIGNIFICANT CONTRIBUTIONS TO SCIENCE
Randy A. Hautea	Ph.D. (Plant Breeding)	Institute of Plant Breeding, CA UPLB, College, Laguna Tel # (109) 2298	Contributions to knowledge and improvement of crops, notably of field legumes and fibers, toward breeding for tolerance to edaphic and biotic stresses, adaption to intensive cropping systems, and with improved seed quality for processing.
Zenaida N. Ganga	Ph.D. (Plant Breeding)	Northern Philippines Root Crops Research and Training Center La Trinidad, Benguet 2601 Tel # 742-2439 Fax # 742-2281	Achievements in the development and selection of white potato varieties which are recommended varieties for the highlands; maintenance and evaluation of local sweet potato, taro, and yam land races in the Cordilleras; and the preservation of indigenous knowledge in the highlands.
Abundio A. Balgos	M.D. (Pulmonary and Internal Medicine)	College of Medicine, UP Manila Pedro Gil Street, Ermita Manila Tel # 521-8450	Pioneering work in pulmonary physiology and medicine, particularly in the development and fabrication of indigenous pulmonary equipment, such as a respiratories, using materials available locally and suited for Filipinos.
Armando C. Crisostomo	M.D. (Colon and Rectal Surger)	2913 B Finland Street Makati City Tel # 86-24-04	Research work on colorectal diseases and surgery and the improvement in the teaching of surgical residency and other training programs, as well as the development of surgical endoscopy in the Philippines.

Table 4
1995 OUTSTANDING PUBLISHED PAPERS AND THEIR SIGNIFICANCE

TITLE OF PUBLISHED PAPER	AUTHOR/S	JOURNAL	SIGNIFICANCE
Water Quality of Laguna de Bay: Status and Trends	Carlito R. Barril Lilia S.P. Madamba Elvira T. Tumlos	<i>Kimika</i> 10:25-33 (1994)	The continued deterioration of the water quality of the lake reflects the cumulative impacts of different kinds of pollution in the lake. If the trend is unabated, it will not be long until the lake becomes dystrophic.
Synthesis and Application of Tetramorpholino Bisamides as Insecticides	Florentino C. Sumera	<i>Kimika</i> 10:1-10 (1994)	The median lethal dose of the bisamides against albino mice ranged from about 4000 - 7000 mg/kg which classifies them among the slightly toxic insecticides.
Amplification and Sequence Analysis of the Upstream Region of the hrpXo Gene <i>oryzae</i> pv <i>oryzicola</i>	Asuncion K. Raymundo Jan E. Leach	<i>Philippine Journal of Biotechnology</i> 4(1):29-38 (1993)	The differences in sequence can be used to design primers which generate ligation or amplified products specific to Xo. pv. <i>oryzicola</i> .
Defining of Constraints of the Effects of Framing on Risky Decisions	Allan Benedict I. Bernardo	<i>Philippine Journal of Psychology</i> 25(2): 1-9 (1992)	The findings suggest that the mode in which people perceive or frame decision outcomes are not rigid. When carefully scrutinizing outcomes, people may frame decision outcomes both positively or negatively.
Attribution Theory and Learned Helplessness: Its Application to the Filipino in Crisis	Andres S. Gerong	<i>University Journal</i> 9(2):42-54 (1993)	The way we find the causes of events in our lives, both happy and unhappy ones, determine the deficits the person will have with regard to (1) his plans of actions, (2) identifying alternatives, and (3) emotional reactions.
Augmentative Releases of the Parasitoid, <i>Aphytis lingnanensis</i> Compere (Hymenoptera: Aphelinidae), Against California Red Scale And Snow Scale Insects (Homoptera: Diaspididae) in Citrus	B. Morallo-Rejesus H.A. Maini V.R. Ocampo F.M. Dayrit E.G. Quintana	<i>Philippine Journal of Crop Science</i> 17(2):57-65 (1993)	Augmentative releases of azimphosethyl-resistant population of <i>A. lingnanensis</i> effectively controlled the snow scale and California red scales in three locations - Victoria, Laguna; Pagas, Nueva Ecija and Villaverde, Nueva Vizcaya. Reduction of insects was achieved in four to six months only.
Insecticidal Actions of Several Philippine Plants with Emphasis on <i>Vitex negundo</i> L	B. Morallo-Rejesus V.R. Ocampo F.M. Dayrit H.A. Maini	<i>The Philippine Agriculturist</i> 76(4):355-371 (1993)	

Table 5
1995 OUTSTANDING PUBLICATIONS AND THEIR SIGNIFICANCE

TITLE OF PUBLICATION	AUTHOR/S	PUBLISHER	SIGNIFICANCE
Poverty, Urbanization, and Development Policy: A Philippine Perspective, 1994. x + 177 pp. ISBN 971-542-041-9.	Arsenion M. Balisacan	Quezon City: College of Social Sciences and Philosophy, University of the Philippines Diliman.	This publication traces the roots of Philippine poverty problems to industrialization and spatial policies that unduly encourage concentration of infrastructure and social services in major urban centers. It discusses how to enhance pro-poor, pro-market, and pro-growth policies.
From Victims to Survivors: Psychological Intervention in Disaster Mitigation Management, 1994. xvi + 278 pp. ISBN 971-8982-00-0.	Lourdes Ladrido-Ignacio and Antonio P. Perlas	Manila: University of the Philippines Manila.	For the first time, here is book for everyone involved in disaster management - rescue workers, health care providers, psychiatrists and psychologists, government officials, and community workers, as well as family members of disaster victims.

Table 6
DOST-NAST "OYS On The Go" Updates

PROJECT TITLE	PROPONENT	STATUS
Chemistry of Selected Plants with Antitubercular Potentials	Dr. Alicia M. Aguinaldo	Ongoing with PCHRD as the monitoring agency. P111,000.00 was given to PCHRD to fund the project last April 1994.
Across-Arc Variation in the Pinatubo-Arayat Transect: Source Region Characteristics; Partial Melting Signatures or Distinct Tectonic Blocks	Dr. Graciano P. Yumul, Jr.	Ongoing with PCIIRD as the monitoring agency. P100,000.00 was given to PCIIRD to fund the project last July 1994.
Enhancement of the Growth and Survivorship of Laboratory-Cultured Sea Urchin <i>Tripneustes gratilla</i>	Dr. Marie Antonette Junio-Meñez	Ongoing with PCAMRD as the monitoring agency. P176,828.00 was given to PCAMRD to fund the project on 21 Feb. 1995.
Agronomic and Biochemical Evaluations of 'Nutrisweet'	Dr. Manuel L. Logroño	Ongoing with PCARRD as the monitoring agency. P100,000.00 was given to PCARRD to fund the project on 17 Feb. 1995.
Postharvest Behavior of Promising Banana Cultivars with Export Potential	Dr. Elda B. Esguerra	Ongoing with PCARRD. Check for P99,688.00 was released to PCARRD on 31 May 1995.
A General Theory of Banach-valued Henstock Integration	Dr. Sergio S. Cao	Ongoing with NRCP as the monitoring agency. P100,000.00 was given to NRCP to fund the project on 21 Feb. 1995.
Electroanalysis of Selected Organophosphorus Pesticides in the Aquatic Environment	Dr. Cherrie L. Bunag-Pascual	Ongoing with PCARRD. P100,000.00 was given to PCARRD on 31 May 1995 to fund the project.
Surface Photovoltage Study of Device - Type Silicon and III-V Compound Semiconductors	Dr. Terencio D. Lacuesta	Ongoing with PCASTRD as the monitoring agency. Check for P107,400.00 is ready for release to PCASTRD. Amount not funded by NAST will be funded by PCASTRD.
Synthesis of Novel Macrocycles Containing the Tetrathiafulvalene and Sugar Units	Dr. Gerardo C. Janairo	Ongoing with PCASTRD as the monitoring agency. Check for P97,039.00 was given to PCASTRD on June 7, 1995 to fund the project.

Table 7
PROJECT PROPOSALS OF OYS AWARDEES IN THE PIPELINE

PROJECT PROPOSAL	PROPONENT
A Comparison of the Rapid Shallow Breathing Index and the Clinical Scoring System in Predicting Success in Weaning Patients on Mechanical Ventilation	Dr. Abundio A. Balgos
Language Factors in Cognitive Arithmetic	Dr. Allan Benedict I. Bernardo
Development and Molecular Analysis of Transgenic Tomato Plants Resistant to Bacterial Wilt	Dr. Antonio C. Laurena
Morphological and Physiological Effects of Elevated CO ₂ Concentrations on Growth and Development of Economically Important Philippine Crops	Dr. Maribel L. Dionisio-Sese
Production of Export Quality Organic Fertilizer and/or Soil Conditioner by a Super "Tipid" Livestock Waste Briquetting System	Dr. Severino S. Capitan
Thrips (<i>Haplothrips gangibaueri</i> Schomutz) as Biological Control Agent of Rice Stemborers	Dr. Cecilia P. Reyes

Table 8
RADIO/PERSONAL INTERVIEWS

DATE	INTERVIEWEE	STATION/HOST
February 14, 1995	Dr. Sergio S. Cao	DZEM - Arlene del Mundo
March 8, 1995	Miss Luningning E. Samarita	DZRM - Susan Layos
March 24, 1995	Dr. Cecilia P. Reyes	DZRM - Susan Layos
September 26, 1995	Acad. Ledivina V. Carifo	DZEM - Arlene del Mundo
September 28, 1995	Acad. Filomena F. Campos	Mt. Carmel College of Quezon City Manuel V. Sanchez, Carlito Guzman, and Rainier Gandia
September 29, 1995	Dr. Ernesto S. Luis	Mt. Carmel College of Quezon City Richella Marie S. Santos, Michelle Soriano, Lora Ann S. Pabellano, Melvin C. Borlaja, and Alex G. Licardo
October 20, 1995	Dr. Merlyn S. Mendioro	DZRM - Susan Layos
October 23, 1995	Dr. Ernesto S. Luis	San Jose Academy of Navotas Mark T. Gonzales and Herschel O. Rodriguez
December 26, 1995	Dr. Ernesto S. Luis	Ateneo de Manila University Eugene Galang

**Table 9
PLENARY SPEAKERS AND DISCUSSANTS DURING THE
17TH ANNUAL SCIENTIFIC MEETING**

SPEAKER	DESIGNATION AND ADDRESS	TITLE OF PAPER
Acad. Ledivina V. Carifio	Dean, College of Public Administration UP Diliman, Quezon City	Ethics in Politics and Bureaucracy: A Review and Synthesis of the Literature
Hon. Salvador M. Enriquez, Jr.	Secretary, Dept. of Budget and Management, Malacañang, Manila	Cabinet Members as Public Servants
Fr. John J. Carroll, S.J.	Director, Institute on Church and Social Issues, Ateneo de Manila University, Loyola Heights Quezon City	Where Lies the Ethics of Public Service
Dr. Mahar Mangahas	President, Social Weather Stations, Inc., Philippine Social Science Center, Commonwealth Avenue, Quezon City	Public Opinion About Public Officials
PANEL DISCUSSANT	POSITION	UNIVERSITY/ADDRESS
Bro. Andrew Gonzales, FSC	President	De La Salle University Taft Avenue, Manila
Dr. Emil Q. Javier	President	University of the Philippines Diliman, Quezon City
Dr. Emily M. Marohombsar	President	Mindanao State University Marawi City
Dr. Carlito S. Puno	President	Philippine Christian University Taft Avenue, Manila
Fr. Rolando de la Rosa, O.P.	Rector	University of Santo Tomas España St., Manila

Table 10
POSTER PAPERS PRESENTED DURING THE 17TH ANNUAL SCIENTIFIC MEETING

DIVISION	AUTHOR/S	TITLE OF POSTER PAPER
Agricultural Sciences Division	Norma O. Aguilar, Institute of Biological Sciences and Museum of Natural History, UPLB, College, Laguna	Seed Identification of Legumes in the Philippines
	Corazon G. Alava, Bukidnon State College, Malaybalay, Bukidnon	Competition between <i>Cymbopogon citratus</i> (DC.) Stapf and <i>Imperata cylindrica</i> (L.) Beauv.
	Adoracion L. Alejandrino, Azucena C. de Vera, Celin O. Asaad, Luzviminda M. Ignacio, Marissa S. Herrera, and Custer C. Deocariz PNRI, Commonwealth Avenue, Diliman, Quezon City	Improving Dairy Cattle Production at Farm Level in Southern Luzon Phase 1: Baseline Studies
	Cecilia B. Amoroso, V.B. Amoroso, and V. O. Guipitacio, Dept. of Biology, CAS, Central Mindanao University, Musuan, Bukidnon	In Vitro Culture of <i>Platyserium grande</i> (FEE) Presl.
	Ernesto C. Bumtay, Teofanes A. Patindol, and Arturo E. Pasa, Dept. of Forestry, VISCA, Baybay, Leyte	Soil Erosion Loss and Soil Fertility Changes of Agroforestry Schemes in Leyte
	Nenita D. Cacayorin, E.O. Domingo, D.R. Sensano, Aida D. Solsoloy, and T.S. Solsoloy, Cotton R&D Institute, Batac, Ilocos Norte	Occurrence and Biology of Pink Bollworm, <i>Pectinophora gossypieta</i> Saunders, on Cotton
	Rogelio R. Caluya and Cesar C. Sevilla, Mariano Marcos State University, Batac, Ilocos Norte	Metabolism of Calcium and Phosphorus in Growing Philippine Indigenous Sheep
	Bonifacio F. Cayabyab, Dante R. Santiago, and Rolando G. Bayot, National Crop Protection Center, UPLB, College, Laguna.	The Utilization of White Muscardine, <i>Beauveria bassiana</i> Against <i>Passiflora</i> Feeder, <i>Cethosia biblis insularis</i> C. Felder (Lepidoptera: Nymphalidae)
	William T. Cruz and Xuan Hoi Truong, Philippine Rice Research Institute, Maligaya, Muñoz, Nueva Ecija	Phylogenetic and Pathotypic Analyses of the Bacterial Leaf Blight Population in Luzon

Table 10 cont..

DIVISION	AUTHOR/S	TITLE OF POSTER PAPER
Agricultural Sciences Division cont...	Cesar G. Demayo, Amelia T. Angeles, Remedios M. Aguda, Angelita M. Romena, W. Theunis, Fred L. Gould, and Dale G. Bottrell, IRRI, College, Laguna	Assessing Variability in <i>Bacillus thuringiensis</i> Strains and Endotoxins: Effects Against Rice Stem Borers
	Cesar G. Demayo and Isaias T. Domingo, IRRI	Variability in Response of Selected Rice to Tungro
	Lemuel M. Diamante, DA, Chemistry and Food Science, VISCA, Baybay, Leyte	Moisture Adsorption Isotherms of Tapanan Dried Copra at Different Temperatures and Implications on Mold Growth and Aflatoxin Production
	A.A. Eusebio, M.G.B. Saldajeno, and N.B. Bajet, Virology and Applied Immunology Laboratory, Dept. of Plant Pathology, UPLB, College, Laguna.	Production of Antisera Against Abaca/Banana Viruses Using SDS-PAGE Purified Proteins
	Samuel F. Franco, National Tobacco Administration Main Research Center, Batac, Ilocos Norte	Utilization of Raw Rice Hull as an Energy Source for Natural Convection Flue-Curing Barns
	Evelyn B. Gergon and Jean-Claude Prot, IRRI, College, Laguna	Effects of Water Regime on the Reproduction of Rice Root Knot Nematode, <i>Meloidogyne graminicola</i> in <i>Sesbania</i> spp. and <i>Aeschynomene</i> spp.
	Alvin D. Globa, National Tobacco Administration Main Research Center, Batac, Ilocos Norte	Pyrolysis Rate of Selected Agricultural and Forest Wastes
	Sunny Sm. Gruezo and Alfinetta B. Zamora, Institute of Plant Breeding, UPLB, College, Laguna	Multiple Shoot Proliferation as a Technique for Propagating Bamboos
Romeo V. Labios, Leonardo T. Lamisin, Jr., David D. Manalo, and Ofelia K. Bautista, Farming Systems and Soil Resources Institute, UPLB, College, Laguna.	Baby Corn Production as a Business Enterprise in Small Farms	

Table 10 cont..

DIVISION	AUTHOR/S	TITLE OF POSTER PAPER
Agricultural Sciences Division cont...	Romeo V. Labios, Jocelyn D. Labios, Virgilio T. Villancio, Artemio M. Salazar, and Romeo E. delos Santos, Farming Systems and Soil Resources Institute, UPLB, College, Laguna	Integrating Upland Crop Production in Rainfed Lowland Rice Areas
	Job M. Matias, E.A. Gonzaga, J.E., delos Santos, and H.S. Salac, Dairy Training and Research Institute, UPLB, College, Laguna	Performance Evaluation of Purebred and Crossbred Dairy Cows under Tropical Conditions
	Armenia B. Mendoza, Kasumi Hattori, and Yuzo Futsuhara, Institute of Biology, CS, UP Diliman, Quezon City	Plant Regeneration from Microspore-derived Calli in Rice <i>Oryza sativa</i> L.
	Belen Morallo-Rejesus, E.L. Inocencio, G.P. Fajardo, E.V. Cardona, Jr., and J.E. Eusebio, Dept. of Entomology, CA, UPLB, College, Laguna	Parasitoid-based Management of Diamondback Moth, <i>Plutella xylostella</i> (L.), on Crucifers in the Philippines
	Teresita T. Nuñez, Regional Coconut Research Center, VISCA, Baybay, Leyte	Agronomic Characteristics of F2 Pure Macapuno Palms
	Cynthia N. Paet, Alfinetta B. Zamora, and E.C. Altoveros, IPB, CA, UPLB, College, Laguna	Conservation Strategies for White Potato Under Low Elevation Humid Tropics
	Lutgarda S. Palomar, V.M. Cerna, and C.A. Vidal, DAC-FS, VISCA, Baybay, Leyte	Effects of Cassava Flour on the Quality of Selected Bakery Products
	Gina V. Pangga, A.J. Alcantara, and D.D. Manalo, Farming Systems and Soil Resources Institute, UPLB, College, Laguna	Farming Systems and Landscape Sustainability Analysis: The Case of Mt. Banahaw de Lucban-Palola Landscape
Gina V. Pangga, A.J. Alcantara, D.D. Manalo, and C.P. Mejorada, Farming Systems and Soil Resources Institute, UPLB, College, Laguna	Assessment: An Expert System for Crop Suitability Evaluation	

Table 10 cont..

DIVISION	AUTHOR/S	TITLE OF POSTER PAPER
Biological Sciences Division cont...	Custer C. Deocaris and Ali D. Malay, Biomedical Research Unit, PNRI, Commonwealth Avenue, Diliman, Quezon City	In Vitro Chemical Protection Against Ionizing Radiation on C6 Neuroglial Cells: Development of a Rapid Microcolorimetric Assay for Radioprotectors
	Custer C. Deocaris and Armenia Mendoza, Biomedical Research Unit, PNRI, Commonwealth Avenue, Diliman, Quezon City	Response of <i>Vigna radiata</i> Vilczek Variety MGO7 γ -Irradiated at Sublethal Doses
	Estrelita O. Domingo and Guido Persoone, Cotton R&D Institute, Batac, Ilocos Norte	Toxicity Level of Polluted Soils in Belgium Using Earthworm, <i>Eisenia fetida</i> , as Indicator Organism
	Emerenciana B. Duran, C.M. de Vera, E.B. Enriquez, A.A. Asada, Jr., and M.T.Y. Nazarea, Health Physics Research Section, PNRI, Commonwealth Avenue, Diliman, Quezon City	Sources and Levels of Radioactivity in Specific Marine Areas and Their Relative Contributions to Overall Assessment from Marine Radioactivity
	Nellie C. Lopez, IB, CS, UP Diliman, Quezon City	Metazoan Parasites of Some Fishes from Taal Lake
	Imelda Pagulayan and Stephanie S. Pimentel, IB, CS, UP Diliman, Quezon City	Structural Changes in the Hepatopancreas of <i>Pomacea caliculata</i> After Exposure to Malathion
	Gloria D. Reyes, M.M. Ulep, and A.C. Velasco, BIOTECH, UPLB, College, Laguna	Characterization and Identification of PHB-producing Bacteria*
	Victor S. Soliman, Skorzeny C. de Jesus, and Serteza O. Bulawan, Bicol University, CF, Tayhi, Tabaco, Albay	Culture and Stock Management of Common Non-Traditional Edible Bivalves of Bicol Waters
Health Sciences Division	Alicia M. Aguinaldo, Marilou R. Cabanilla, Monico Tenedor, and Scott G. Franzblau, Research Center for Natural Sciences, UST, España St., Manila	Antituberculars from Philippine Plants*

* Best poster paper award.

Table 10 cont..

DIVISION	AUTHOR/S	TITLE OF POSTER PAPER
Health Sciences Division cont...	M.T. Baclayon, L. Bravo, E. Gabriel, and J. Rogacion, Dept. of Pediatrics, UP-PGH, Manila	Liver Abscess in Children: A Review of Cases at the Philippine General Hospital
	L.C. Bravo, P.D. Santos-Ocampo, J.M. Rogaciano, F.N. Gatcheco, M.L. Maranon, and C.C. Carlos, Dept. of Pediatrics, UP-PGH, Manila	Bloody Diarrhea Among Filipino Children: Etiology and Outcome of Therapy Using WHO Case Management
	Gloria de Castro-Bernas and Imelda J. Garcia, Faculty of Medicine and Surgery, UST, España St., Manila	Distribution Profile of Urinary Human Chorionic Gonadotropin Subunits: Assay Development for Lung and Breast Cancer
	L. Coronel, L. Ferreria, J. Garcia, M. Santiago, C. Trinidad, Marsel Ysrael, and M. Nonato, Research Center for Natural Sciences, UST España St., Manila	Diuretic Studies of Five <i>Pandanus</i> Species
	Ileana R.F. Cruz and Lilian de las Llagas, College of Pharmacy, UP-PGH, Taft Avenue, Manila	Efficacy of Some Botanical Extracts Against Medically Important Mosquitoes in the Philippines
	Rama O. Nieves, Office of the Director, PGH, Taft Avenue, Manila	Psychosocial Needs of Hospitalized and Non-hospitalized Filipino Cancer Patients
	E.C. Simeon, Gloria de Castro-Bernas, Jason Letran, and David T. Bolong, Research Center for Natural Sciences, UST, España St., Manila	In Vitro Cultivation of Urothelial Cells for Tissue Graft
Mathematical, Physical, and Engineering Sciences Division	G.A. Azares, A. Bartolome, E. Borcelis, M. Ysrael, and M. Nonato, Research Center for Natural Sciences, UST, España St., Manila	The Genus <i>Pandanus</i> : Its Chemistry and Biological Potential
	Leonorina G. Cada and L.C. Chien, IC, CS, UP Diliman, Quezon City	Effect of Cross-Linking Temperature on the Liquid-Crystallinity of Side-Chain Polymers

Table 10 cont..

DIVISION	AUTHOR/S	TITLE OF POSTER PAPER
Mathematical, Physical, and Engineering Sciences Division cont...	James D.L. Caro, Department of Mathematics, UP Diliman, Quezon City	On the Power of Operators of Higher Order in Structural Complexity Theory
	Raoul E. Cawagas, SCITECH R&D Center, PUP, Sta. Mesa, Manila	Latin Square Composition of Finite Lagrangia Quasigroups and Groups
	Frederick T. Co, Leilani B. Alfonso, and Fortunato B. Sevilla III, Research Center for Natural Sciences, UST, España St., Manila	An FET Biosensor for Neutral Lipids*
	Carlos P.C. David, NIGS, CS, UP Diliman, Quezon City	The Chromite Deposits of the Dinagat Ophiolite Complex: Contributions to Chromite Genesis
	Carla Dimalanta, NIGS, CS, UP Diliman, Quezon City	Geology of the Baguio Mineral District - A Geophysical Perspective
	Henley F. Galiga and Fortunato B. Sevilla III, Research Center for the Natural Sciences, UST, España St., Manila	Optical Sensor for Hydrogen Peroxide Based on the Chemiluminescence of Immobilized Peroxyoxalate
	Ofelia DLC. Giron, UP College, Baguio, Gov. Pack Road, Baguio City	Immobilization of Metal Complexes on Silane-Modified Silica Surfaces
	Elma C. Llaguno, Florenda S. Valera, Karen Monjardin, Maria L. Nocum, and Lilian R. Alicias, Research Center for Natural Sciences, UST, España St., Manila	Metal Complexing Capacity Studies on Humic Substances from Philippine Sources
	Mustansir Manjoorsa, NIGS, CS, UP Diliman, Quezon City	Sulfur Saturation and Sulfide Mineralization in the Acoje Block, Zambales Ophiolite Complex

* Best poster paper award.

Table 10 cont..

DIVISION	AUTHOR/S	TITLE OF POSTER PAPER
Mathematical, Physical, and Engineering Sciences Division cont...	Veronica P. Migo, Rodolfo M. Castillo, Masotoshi Matsumura, and Ernesto J. Del Rosario	Flocculation Melanoidins by Inorganic Cations: A Model Based on Electrical Charge
	Cristina Remotigue, R.A. Alonso, K.S. Rodolfo, and J.V. Umbal, Diliman, Quezon City	Four-year Overview of Lahar Activity on the West Side of Mount Pinatubo
	Rodolfo A. Tamayo, Jr., Ferdinand Jumawan, Graciano P. Yumul, Jr., and Rogel Santos, NIGS, CS, UP Diliman, Quezon City	Petrological and Geochemical Characterization of the Camarines Norte Ophiolite Complex, Southeast Luzon
	Graciano P. Yumul, Jr., Rodolfo A. Tamayo, Jr., and Carlos P.C. David, NIGS, CS, UP Diliman, Quezon City	Southeast Bohol Ophiolite Complex, Visayas, Philippines: A Forearc to Back-Arc Supra-Subduction Zone Ophiolite Complex
Social Sciences Division	Eduardo R. Alicias, Jr., CE, UP Diliman, Quezon City	Instructional Supervision and Pupil Achievement: Effectiveness of Supervisory Visitation in Selected Classes
	Daniel S. Santos, Pamantasan ng Lungsod ng Maynila, Intramuros, Manila	Philippine Disaster Victims: Case Studies
	Aurora E. Perez and John B. Casterline, Population Institute, UP Diliman, Quezon City	Reproductive Health Risks and Unmet Need for Family Planning in the Philippines*

* Best poster paper award.

**Table 11
ACTIVITIES/ACCOMPLISHMENTS OF ACADEMICIANS**

ACADEMICIAN	RESEARCHES/PUBLICATIONS/ COMPLETED WORKS AWAITING PUBLICATION	CONFERENCES/SEMINARS/ CONGRESSES/SYMPOSIA/MEETINGS/ WORKSHOPS ATTENDED; GRANTS RECEIVED; OTHER ACTIVITIES	HONORS RECEIVED/POSITION
Filomena F. Campos		<ol style="list-style-type: none"> 1. Indian Science Congress and FASAS Meeting, Jan. 2-12, New Delhi 2. Asia Pacific Network (APN) Planning Meeting, Jan. 23-25, Cairns, Australia 3. Multi-sectoral Meeting on Human and Ecological Security, Jan. 29-31, Tagaytay City 4. Committee on S&T for Development (COSTED) and International Biological Network (IBN), Feb. 13-15, University of Singapore 5. Climate Change Forum: NGO and Gov't Institutes, Feb. 17, Quezon City 6. 6th SARCS Meeting, Mar. 9-11, Academia Sinica, Taipei 7. Asia Pacific Network Planning Workshop and Meeting, Mar. 14-17, Tokyo 8. Land Ocean Interaction Coastal Zone Open Science Meeting, Apr. 24-27, MSI, UP Diliman 9. Pacific Science Congress (Co-chair: North-South Cooperation), June 5-12, Beijing, China 10. Third World Academy of Sciences Meeting, Sep. 17-22, Abuja, Nigeria 11. Meeting of Scientific Advisory Committee of IGBP, Oct. 23-29, Beijing, China 12. 7th SARCS Meeting, Oct. 28-29, Beijing, China 13. Speaker, Close Encounter of a Science Kind, Sep., NRCP, Bicutan 	<ol style="list-style-type: none"> 1. Vice-President for Asia and Pacific Region - Third World Organization of Women Scientists 2. Member, Southeast Asia Regional Committee on Global Change, Chulalongkorn University, Bangkok, Thailand 3. Member, Asia Pacific Network for Global Environmental Forum, Tokyo, Japan 4. Chairperson, International Geosphere Biosphere Program, National Committee, Philippines 5. Member, National Inter-Agency Committee for Global Change 6. Member, NAST Executive Council

Table 11 cont...

ACADEMICIAN	RESEARCHES/PUBLICATIONS/ COMPLETED WORKS AWAITING PUBLICATION	CONFERENCES/SEMINARS/ CONGRESSES/SYMPOSIA/MEETINGS/ WORKSHOPS ATTENDED; GRANTS RECEIVED; OTHER ACTIVITIES	HONORS RECEIVED/POSITION
Filomena F. Campos cont...		14. Organizer, Symposium/Workshop on National Global Change Issues, Oct. 12-13, PhilRice Muñoz, Nueva Ecija 15. NAST Research Grant: Impact Analysis of ASM from 1991 to 1994 with Dr. Alfredo V. Lagmay	
Magdalena C. Cantoria	1. Selected Topics in Pharmacognosy NAST, Bicutan, Tagig, 484 pp. ISBN 961-8538-27-5 2. Some Household Remedies (Galenicals) for External Use Prepared From Local Medicinal Plants, NRCP, Bicutan, Tagig, 35 pp. ISSN 0111-0886 3. The Effect of Aqueous Extracts of <i>Zingibar</i> Species on Mitotic Chromosomes of <i>Allium cepa</i> L. by Eleanor A. Santos and Magdalena C. Cantoria, South China Institute of Botany, Guangzhou, China, May 09-12.	1. Botany 2000 Asia, 2nd Symposium on the Family Zingiberaceae, South China Institute of Botany, Guangzhou, China, 9-12 May. 2. Study grant in Taxonomy Dept., South China Institute of Botany, Guangzhou, China, 13-20 May. 3. Study grant from the German Research Society to attend congress on secondary products in Halle and symposium on essential oils in Hamburg, Germany 4. Study grant from the Royal Society on the computer as an aid to the identification of powdered vegetable drugs; the Royal Botanic Gardens, Kew, Richmond, Surrey, on techniques of preparing plant mitotic chromosomes for examination and cytogenetic studies, and on bioassays for insect antifeedant activity 5. Conference on Biotechnology and Biodiversity, ASEAN Committee on S&T, Bangkok, Thailand, 28-29 August 6. 43rd Annual Congress, Secondary Products -Physiologically Active Compounds, 3-7 September, Martin Luther University, Halle, Germany	1. 1995 UP Alumni Association Professional Award in Pharmacy, 17 June, UP Diliman 2. Certificate of Recognition to "Government Policies in the Pharmaceutical Sciences and Their Implementation, 1981-1990" as significant publication in UP Manila for 1994 on the basis of originality, relevance, methodology, validity, and presentation, awarded 22 June by UP Manila 3. Member, Society for Medicinal Plant Research, Germany

Table 11 cont...

ACADEMICIAN	RESEARCHES/PUBLICATIONS/ COMPLETED WORKS AWAITING PUBLICATION	CONFERENCES/SEMINARS/ CONGRESSES/SYMPOSIA/MEETINGS/ WORKSHOPS ATTENDED; GRANTS RECEIVED; OTHER ACTIVITIES	HONORS RECEIVED/POSITION
<p>Magdalena C. Cantoria cont...</p>		<p>7. 26th International Symposium on Essential Oils, Dept. of Pharmaceutical Biology, University of Hamburg, 10-13 September, Hamburg, Germany</p> <p>8. Participated in Biodiversity Conservation Program, 18 January, Balay Kalinaw, UP Diliman</p> <p>9. Attended Presentation of Papers of Finalists for the Philippine Talent Search for Young Scientists, College of Science, UP Diliman, 18 April</p> <p>10. Member, NAST Standing Committee on S&T, 20 February</p> <p>11. Chair, Publication Awards Committee, 25 May</p> <p>12. Member, Panel of Judges, Philippine Nominee for the ASEAN Young Scientist and Technologist Award, 7 June</p> <p>13. Attended the 17th ASM, PICC, 12-13 July</p> <p>14. Represented NAST at Forum Implementing Rules and Regulations on Bioprospecting, sponsored by AIM Policy Forum, 28 June</p> <p>15. Philippine Representative to the ASEAN Young Scientist and Technologist Award Panel of Judges, 27-29 August</p> <p>16. Attended 62nd Annual Meeting of NRCP, 11 March, UP Diliman</p> <p>17. Elected Chair, Division IV, Pharmaceutical Sciences, NRCP, 11 March</p> <p>18. Elected Corporate Secretary, NRCP, 28 April</p>	

Table 11 cont...

ACADEMICIAN	RESEARCHES/PUBLICATIONS/ COMPLETED WORKS AWAITING PUBLICATION	CONFERENCES/SEMINARS/ CONGRESSES/SYMPOSIA/MEETINGS/ WORKSHOPS ATTENDED; GRANTS RECEIVED; OTHER ACTIVITIES	HONORS RECEIVED/POSITION
Magdalena C. Cantoria cont..		<p>19. Emcee and Moderator, NRCP Symposium, Basic Research and High Technology for Agro-Industrial Development, DOST Executive Lounge, Bicutan, Tagig</p> <p>20. Gave a lecture on Research on Drug Development from Higher Plants, 2 November, San Carlos University, Cebu City</p> <p>21. Gave a lecture "Medicinal Plant Biotechnology," 22 November, PGH Science Hall, Taft Avenue Manila</p> <p>22. Member of Personnel, Publications, Planning, Executive, Policy Advice Committees, NRCP; member and secretary, Committee on Current Issues.</p> <p>23. Attended Inter-Regional Consultative Workshop on S&T, 3 March, Hyatt Regency Hotel</p> <p>24. Attended 7th Annual Convention of Phil. Association of Laboratory Animal Science, 24 May, Manila Peninsula Hotel, Reelected member, Board of Trustees</p> <p>25. Attended symposium on Generics and Global Challenge, 25 July, Benitez Hall, College of Education, UP Diliman, Quezon City</p> <p>26. Thesis Examiner, Institute of Biology, CS, UP Diliman</p> <p>27. Member, Panel of Examiners, Institute of Biology, CS, UP Diliman</p> <p>28. Participated in Statistical Approach to Animal Experimentation, 4 August, United Lab., Inc. Mandaluyong City</p>	

Table 11 cont...

ACADEMICIAN	RESEARCHES/PUBLICATIONS/ COMPLETED WORKS AWAITING PUBLICATION	CONFERENCES/SEMINARS/ CONGRESSES/SYMPOSIA/MEETINGS/ WORKSHOPS ATTENDED; GRANTS RECEIVED; OTHER ACTIVITIES	HONORS RECEIVED/POSITION
<p>Magdalena C. Cantoria cont...</p>		<p>29. Maintainer of drug plant garden for research and instruction, UP Diliman 30. Donor of publications to Col. of Pharmacy, UP Manila 31. Representative of Women's Association of Scientists of the Philippines, CEC, UPLB, Laguna, 2 June</p>	
<p>Ledivina V. Cariño</p>	<p>1. Population, Resources, and Balanced Development in Current and Emerging Metropolitan Areas, started August 1995 2. Ethics in Politics: A Review and Synthesis of the Literature, completed July 1995 3. Elements of the University Ethic, completed May 1995 4. Globalisation and the ASEAN Public Sector co-edited with Sirajuddin Salleh, Kuala Lumpur, Malaysia: Asia Pacific Development Centre, 1995. Author of 2 integrative chapters 5. Conquering Politico-Administrative Frontiers: Essays in Honor of Raul P. De Guzman; Editor and author of one chapter, The Administrative Style of Raul P. De Guzman: Lessons for Philippine Academic Leadership, Quezon City: UP Press, 1995 6. Complements, Competitors, and Collaborators: GO-NGO Relations, in Romeo B. Ocampo and Oscar M. Alfonso, Alternative Delivery Systems, Manila: ADIPA, 1995</p>	<p>1. General Assembly and Conference, Eastern Regional Organization for Public Administration, Tokyo, Japan, 10-16 Sept. 1995 (paper-writer) 2. UP Faculty Conference on UP and Values Education, Subic Bay Freeport Zone, May 28-31, 1995 (paper-writer) 3. 5th Asia Pacific Conference International Association for Volunteer Effort, Subic Bay Freeport Zone</p>	<p>1. Elected Academician, July 1995 2. Elected Secretary, Phil. Association for Volunteer Effort, Subic Bay Freeport Zone</p>

Table 11 cont...

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Gelia T. Castillo	<ol style="list-style-type: none"> 1. Invited paper: The Privileges We Enjoy and the Choices We Make 2. Rice, Rice, and Beyond: Understanding Fragile Lives in Fragile Lands 3. Presented paper: Social Harvests from the Promise of Springtime: Responsive, Participatory Agricultural Research 4. Presented paper: Building Bridges Toward Our Common Future 5. Presented paper: Evaluation: Purpose, Process, Product, and Probity 6. Rural Development Reconsidered: Some Emerging Niches for Population Studies In Essays in Social Science and Development, PIDS and IDRC 7. Essays in Social Science and Development: A Tribute to Gelia T. Castillo 8. Gelia T. Castillo: A pioneer in rural sociology, has helped shape thinking in international development circles around the world 	<ol style="list-style-type: none"> 1. Guest of Honor, Scholars Recognition Convocation, Malcolm Hall, UP Diliman, 1 February. 2. Plenary Session Speaker, IRRI, College, Laguna, 14 February 3. Chairperson, Outstanding Young Women in Rice Science Awards, IRRI, 1994-95 4. Participant/Consultant on Strengthening National Capacities for Health Reform, International Health Policy Program, Washington, DC, 27 February 5. Resource Person, UPWARD Workshop on Dynamics of User-based Conservation and Utilization of Rootcrops Diversity in the Philippines, PCARRD, Los Baños 6. Attended the meeting of the Scientific & Technical Advisory Committee, Tropical Disease Research Program, WHO, 6-8 March, Geneva 7. Attended the meeting of WHO Committee on Health R&D Priorities for Developing Countries, 9-10 March, Geneva 8. Attended Board of Trustees Meeting of the International Plant Genetic Resources Institute, Rome, Italy 1-2 April 9. Resource Person, National Resource Management Program Visioning Conference on Community-Based Forest Management, 4 May, Quezon City 10. Participant, First PhilRice, UPLB-IRRI Tripartite Workplan Meeting, 16-17 March, IRRI 	

Table 11 cont...

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<p>Gelia T. Castillo cont...</p>		<p>11. Co-promotor for Ph.D. Examination of Mr. Dindo Campilan, Wageningen Agricultural University, 7 June 12. Attended Meeting of PhilRice Board of Trustees, DA, 19 July, Quezon City 13. Attended meeting of the Technical Research Advisory Council Project on Micro Impacts of Macro Policies, Philippine Institute for Development Studies, 28 July 14. Member, Rice IPM Networ Peer Review, IRRI, August 27-September 8 15. Attended meeting and site visits of the Board of Trustees, International Plant Genetic Resources Institute, 11-23 September, Rome, Italy 16. Attended Annual Planning Meeting of the Board of Trustees of UPWARD Research Network, Yogyakarta, Indonesia, 2-6 October 17. Attended the 25th Anniversary of IDRC, Ottawa, Canada, 26 October</p>	
<p>Leopoldo S. Castillo</p>	<p>1. The Nutritional Feeding Value of Sweet Potato and Cassava for Swine and Poultry</p>	<p>1. Attended "Rhone-Poulenc Animal Nutrition Update" IAS, UPLB, College, Laguna 2. Evaluator of the research proposal "Fundamentals of Crop Science" of Acd. Ricardo M. Lantican, 20 March 3. Participated in the "Inter-Regional Consultative Workshop on S&T," Hyatt Regency Hotel, 3 March 4. Attended "A Simple Tribute to National Scientist Encarnacion Alzona on Her 100th Birthday"</p>	

Table 11 cont...

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Leopoldo S. Castillo cont..		5. Participated in the Presentation of Papers of Finalists for the Philippine Talent Search for Young Scientists, CS, UP Diliman, 18 April 6. Participated in the 17th ASM, PICC 12-13 July 7. Participated in the Science Information on Semiconductor Industry, 15 August, Casino Español, Ermita 8. Evaluator of research proposal "Production of export quality organic fertilizer of soil conditioner by super 'tipid' livestock waste briquetting system" of Dr. Severino S. Capitan, 17 September 9. Participated in UPLB, CA Faculty Conference at the Development Academy of the Philippines, Tagaytay City on "Tungo sa Makabuluhang Pang-unawa sa Likas Kayang Papasaka sa Pamamagitan ng Pagyamang BSA Curriculum" 17-19 October 10. Evaluator of research proposal "Recurrent selection for horizontal resistance to late blight (<i>Phytophthora infestans</i>) in potato" of Dr. Zenaida N. Ganga, 13 November	
Lourdes J. Cruz	1. Principal author of Clinical Toxicology of Animal Venoms 2. Co-author of A New Family of Conus Peptides Targeted to nACH Receptor 3. Co-author of Structural and Biosynthetic Peptides in Cone Snail Venoms	1. Speaker - Symposium on Molecular Approaches in Biology, UP Diliman, 6-8 January 2. Speaker - Neuroactive Peptides of the Marine Snail, <i>Conus striatus</i> , Anaheim, California, 2-6 April	1. Professor and researcher at MSI, UP Diliman 2. Adviser of M.S. students 3. Thesis adviser of 8 B.S. students who graduated

Table 11 cont...

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<p>Lourdes J. Cruz cont...</p>		<p>3. Speaker - Third JUBMB Conference - Molecular Recognition, Singapore 23-27 April 4. Speaker - 6th Asian Chemistry Congress, Metro Manila, 22-25 May 5. Speaker - The First Asia-Pacific Marine Biotechnology Conference, Japan 12-14 September 6. Speaker - 7th FAOBMB Congress, Australia, September 7. Speaker - Southeast Asia - Western Pacific Regional Meeting of Pharmacologists, 21-25 November, Manila Hotel 8. Speaker - Symposium on Biotechnology for Chemists, UP Diliman, 20 February 9. Speaker - 20th Annual Convention of PSBMB, UPLB, 8-9 December 10. Seminars given abroad - Diversity of conus peptides, Sophia University, Tokyo, Japan, 26 January; Conotoxins Acting on Sodium Channels, University of Tokyo, Japan, 27 January; Deadly Marine Snails: Biochemical Strategies for Capturing Prey, Marine Biotechnology Institute, Shizuoka, Japan, 31 January 11. Seminar given in the Philippines - Marine Toxins Acting on Sodium Channels, UST, España, Manila, 11 February 12. Visiting Scientist - to learn advances in molecular biosciences and biotechnology in Japan 13. Research work on conotoxins in University of Utah, 4 March - 19 April and 22 July - 6 September</p>	<p>4. Chairman of Ad Hoc Committee to Review the UP System Biochemistry Academic Degree Program</p>

Table 11 cont...

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Fe del Mundo	<ol style="list-style-type: none"> 1. In progress: Health & Nutrition Trends Among Filipino Children (0-19) in the Decade 1980 to 1990 2. In progress: Fourth Edition of Pediatrics & Child Health as editor-in-chief 3. Book launched on 27 November "Diamonds in the Philippine Medical Profession '95" on 15 Philippine Women Physicians Beyond 70 Years and Still Active Professionally 4. Introduction and Chapter on Tuberculosis in Children in Textbook of Pediatrics and Child Health, 4th Edition 	<ol style="list-style-type: none"> 1. Community Pediatric Society Annual Convention, April 1 as Founding Member and 1st President, Holiday Inn 2. Philippine Pediatric Society Annual International Convention Center, April 3-5. 3. Scientific Symposium of the Community Pediatric Society of the Philippines, October 11, DAP at Pasig 4. Annual Meeting, American Academy of Pediatrics, San Francisco, California, October 12-17 5. Post-graduate course, "First Course Across the Seas" of Children's Medical Center of the Philippines, Zamboanga City, October 21-22 6. 38th Anniversary and 18th Annual Convention on Women: Issues and Concerns, Maternal and Child Health Association of the Philippines, Quezon City Sports Club, Quezon City, November 18. 7. Management, Seminar Workshop of the Phil. Pediatric Society, Board of Trustees & Officers, November 24-26 in Mactan, Cebu, as past president 	<ol style="list-style-type: none"> 1. Lifetime Achievement Award by the Philippine Pediatric Society, April 2 2. Golden Heart Award from Institute of Community and Family Health Inc., May 30 3. Guest of Honor & Keynote Speaker on the 50th Anniversary of the North General Hospital, August 22-24 4. Special Award of Recognition by the North General Hospital USA Chapters, August 24 5. Award of Distinction and Appreciation by Zamboanga City Medical Center, Dept. of Pediatrics, 22 October
Salcedo L. Eduardo	<ol style="list-style-type: none"> 1. Nematode parasites of horses in the Philippines. IV. Non-strongyloidean genera and their species 2. Dignean (Trematoda) parasites of the marine green turtle, <i>Chelonia mydas</i>, in the Philippines 3. Guide to the collection of Phil type specimens of parasitic protozoa and helminths (ongoing) 	<ol style="list-style-type: none"> 1. 82nd Annual Convention of Phil Veterinary Medical Association, February 16-17, Manila Midtown Ramada Hotel 2. 62nd Annual Meeting of NRCP, 11 March, Bahay ng Alumni, UP Diliman 3. First Phil-Japan Joint Seminar on Animal Diseases, April 15, College of Vet Medicine, UPLB, College, Laguna 4. 17th ASM, PICC, July 12-13 	<ol style="list-style-type: none"> 1. Outstanding Teacher Award, College of Vet Med, UPLB, College, Laguna 2. Member, Editorial Board, Asian-Australian Journal of Animal Sciences 3. Associate Editor, Philippine Journal of Veterinary & Animal Sciences 4. Vice-President (Philippines) International Society for Southeast Asian Agricultural Sciences

Table 11 cont...

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<p>Salcedo L. Eduardo cont...</p>	<p>4. Helminth parasites of domestic and wild animals in the Philippines transmissible to man - In: Proceedings of the First Phil-Japan Joint Seminar on Animal Diseases, April 5, College of Vet Medicine, UPLB, College, Laguna</p> <p>5. Two nematode parasites of the Calamian deer, <i>Cervus (Axis) calamianensis</i> in the Philippines, <i>Philippine Journal of Veterinary Medicine</i>, 32 (1)</p>	<p>5. Seminar on Research & Technology Management for Regional Research System Leaders/Managers, Phase 1, Los Baños, Laguna, Phase 2, Seoul, Korea, August 30-September 8</p> <p>6. General Assembly Meeting, International Society for Southeast Asian Agricultural Sciences, Hotel Nikko Manila Garden, November 9</p> <p>7. International Seminar on Conservation of Agricultural Produce through Postharvest S&T, November 10-14, Hotel Nikko Manila Garden, Manila and Baguio City</p>	
<p>Pedro B. Escuro</p>		<p>1. Member, Evaluation Panel of Mutation Breeding Program of PNRI, Diliman, February 15</p> <p>2. Attended annual meeting of NRCP, March 11</p> <p>3. Annual meeting of Academicians, February 23, Bicutan, Tagig</p> <p>4. Presentation of papers of finalists for Philippine Talent Search, UP Diliman, April 18</p> <p>5. NAST special meeting, Bicutan, Tagig, May 25</p> <p>6. 20th Anniversary, IPB, UPLB, College, Laguna June 5</p> <p>7. 17th ASM, PICC, July 12-13</p> <p>8. NRCP Symposium on Basic Research and High Technology for Agro-Industrial Development, DOST Bicutan, Tagig, July 7</p> <p>9. PCARRD Anniversary: Nurturing a Global Niche Through Research and Technology, Los Baños, November 10</p>	

Table 11 cont...

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Edito G. Garcia	<ol style="list-style-type: none"> 1. Development of an anti-pathology vaccine based on anti-embryonation immunity in <i>Schistosoma japonicum</i> infection 2. Characterization, cloning, sequencing, and expression of egg antigen of <i>Schistosoma japonicum</i> 3. Publication: Mitchel, GG; Garcia, EG; Davern, KM, and Tiu, WU, on Vaccination against <i>Schistosoma japonicum</i>, Philippine J. Allergy and Immunology, 2:3-5. 		
Rafael D. Guerrero III	<ol style="list-style-type: none"> 1. Use of Natural Androgen 17β-Androstendione for Sex Reversal of Nile Tilapia 2. Use of Fluoxymesterone for the Production of All Male Nile Tilapia (in progress) 	<ol style="list-style-type: none"> 1. World Aquaculture Society Meeting, San Diego, California, 1-4 February 2. Experts Meeting on Zero Emission Research Initiative of UN University, Beijing, China, 1-5 April 3. ASEAN COST Meeting, Bangkok, Thailand, 21-24 August 	<ol style="list-style-type: none"> 1. USAID-Asia Foundation Environmental Fellowship with the Chesapeake Bay Foundation, Annapolis, Maryland, 6-24 February 2. UP Alumni Association Professional Award in Aquaculture, 17 June 3. Excellence Award for Productivity R&D, Asian Productivity Organization Society of the Philippines, 20 October
Bienvenido O. Juliano	<ol style="list-style-type: none"> 1. Identification of rice varieties, pp. 265-274, C.W. Wrigley 2. Paper presented: In Search of High Quality Rice 	<ol style="list-style-type: none"> 1. Participated in 6th Asian Chemical Congress, Manila, 22-25 May 2. 2nd Asian Crop Science Conference, Fukui, Japan, 21-23 August 	<ol style="list-style-type: none"> 1. Professorial Lecturer 5, Institute of Chemistry, UPLB 2. Consulting Senior Scientist, Division of Rice Chemistry and Food Science, PhilRice, UPLB
Jose O. Juliano		<ol style="list-style-type: none"> 1. 5th Gamma Processing Ontario, Canada, 26-29 September 	<ol style="list-style-type: none"> 1. Chairman, Chemistry Board, Professional Regulation Commission

Table 11 cont...

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Clara Lim-Syllanco	1. Bioinorganic and Bioorganic Mechanism 2. Effect of Some Medicinal Plants on Skin Tumor Promotion by J.D. Balboa and C. Lim-Syllanco 3. Inhibition of Activity of Genotoxic Tumor Promoters by Two Philippine Medicinal Plants by L. Serrano, L.S. Wiu and C. Lim-Syllanco, Phil. J. of Science vol. 124 no. 1, Jan.-Mar. 1995 4. Anti-tumor Promoting Activity of Decodums and Expressed Juices from Philippine Medicinal Plants, by E. Serrano and C. Lim-Syllanco, Phil. J. of Science July - Sept. 1995, pp. 275-281		1. Award as outstanding member of Phi Kappa Phi, March 29, Abelardo Hall, UP Diliman
Tito A. Mijares	1. Sampling Design: A Training Manual, prepared for use in a short course on sampling techniques for sample survey at the Statistical Research and Training Center, Quezon City, March 1995	1. Attended the 6th National Convention on Statistics, Manila Galeria, Ortigas Center, 4-5 December	
Luz Oliveros-Belardo	1. Two Possible Alternative Sources of Energy, Philippine Educational Forum 32 (1&2): 22-24 (1994) 2. The Leaf Volatile Oil of <i>Nothopanax fruticosum</i> by Luz Oliveros-Belardo, Roger M. Smith, Linda Collins, and Robert Minard, Philippine Journal of Science 124 (4) (1995)		1. Philwomenian of Highest Distinction Award from PWU, 1995 2. CAPA Hall of Fame Award

Table 11 cont...

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Faustino T. Orillo		<ol style="list-style-type: none"> 1. Attended Inter-Regional Consultative Workshop on S&T, Hyatt Regency Hotel, 3 March 2. 62nd NRCP Annual Meeting, Ang Bahay ng Alumni, UP Diliman, 11 March 3. Symposium on Structural Changes: Prospects and Problems in Government, Education, and International Relations Policies, Bulwagang Claro M. Recto, Faculty Center, UP Diliman, 23 May 4. Multi-sectoral Forum on Waste Management and Disposal DLU Auditorium, SEARCA, College, Laguna, 3 July. 5. 17th ASM, PICC, Manila, 12-13 July 6. Symposium on Basic Research and High Technology for Agro-Industrial Development, DOST Executive Lounge, Bicutan, 24 July 7. Symposium on Water Resources Management for Sustainable Development, SEARCA, College, Laguna, 26 July 	<ol style="list-style-type: none"> 1. Professor Emeritus of Plant Pathology, CA, UPLB College, Laguna 2. Member, NAST Executive Council; Member, AdHoc Committee on Research Fellows; Chair, Agricultural Sciences Division; and Chair, Committee on Election of NAST 3. Chair, Sub-committee on Award for Best Poster in Agricultural Sciences 4. Member, Committee on ASEAN Awards in Three (3) Categories 5. Member, Board of Trustees NAST Foundation, Inc. 6. Member, National Committee on Biosafety of the Philippines, DOST 7. Member-at-large, Governing Board, NRCP 8. Member, NRCP Committee on Regional Outreach Program 9. Ex-officio Member, Board of Directors, UPLB College of Agriculture Alumni Association 10. Member, Board of Directors, Asian Development and Management (Philippines), Inc.
Perla D. Santos-Ocampo	<ol style="list-style-type: none"> 1. Comparison of Feeding Regimens Among Patients with Acute Diarrhea 2. Child Abuse in the Philippines 3. Zinc Deficiency in Filipino Children 4. Algorithms in Decision Making Gastroenterology and Nutrition 5. Published papers - 	<ol style="list-style-type: none"> 1. Executive Committee Meeting of the International Pediatric Association, 19 January, Washington, DC 2. International Pediatric Association Meeting, 01-05 April, Ankara, Turkey 3. Annual General Meeting and 25th Anniversary of the Roche Asian Research Foundation, 02 June, HongKong 	<ol style="list-style-type: none"> 1. First Ihsan Dogramaci Medal and Prize (for international pediatric education) 2. 1995 Edna & Robert Langholz International Nutrition Award (for international pediatric nutrition)

Table 11 cont...

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<p>Perla D. Santos-Ocampo cont..</p>	<p>a. Management of Acute Diarrhea in Infants JPOG Jan-Feb. 21: (1) 20-22 b. Caloric Intake in Acute Childhood Diarrhea, Phil J Pediat Apr - June 1995 , 44: (2) 124-128 c. The Use of 90 mmol/L-L Alanine Oral Rehydration Solutions in Management of Acute Diarrhea in Children Phil J Pediat Apr - June 1995, 44: (2) 129-136 d. Congenital Anomalies in Patients with Neonatal Cholestasis: A Five-Year Review (1987-1991) Phil J Pediat Apr - June 1995, 44:(2) 142-145</p>		
<p>Joventino D. Soriano</p>	<p>1. Seedlessness in mango <i>Mangifera indica</i>, in progress 2. Gigantism in saluyot (<i>Corchorus sp.</i>) an export crop, in progress 3. Food nutrient production in mericlinal tissues, on going</p>		
<p>Teodulo M. Topacio, Jr.</p>	<p>1. The Generics Act of 1988, Impact on Veterinary Practice, 1994 2. Veterinarian, The Complete Food Hygienist 3. The Role of Veterinarians in Disasters 4. Philippine National Veterinary Drug Formulary, Vol. 1 5. Philippine Compedium for Rabies Control and Eradication Program 6. Manual of Operation, National Rabies Control and Eradication 7. Monthly reports on Foot and Mouth Disease Control & Education Program 8. Computerization in the Board of Veterinary Medicine Examination, 1994</p>	<p>1. Attended Philippine Veterinary Medical Association Convention, February 2. Philippine Society of Animal Science Annual Scientific Conference, October 3. Philippine Society for Microbiology, 1994 4. Veterinary Practitioners Association 5. 25th World Veterinary Congress, September 3-9, Yokohama, Japan 6. Federation of Asian Veterinary Associations 9th Congress, September 6-7, 1995, Yokohama, Japan 7. 18th FAVA Council of Representatives Meeting, September, Japan</p>	<p>1. Honoree, 1995 Philippine Society of Animal Science Lecture Series: A Tribute 2. Elected to the Hall of Fame of the Philippine Veterinary Association, February</p>

Table 11 cont...

ACADEMICIAN	RESEARCHES/PUBLICATIONS/ COMPLETED WORKS AWAITING PUBLICATION	CONFERENCES/SEMINARS/ CONGRESSES/SYMPOSIA/MEETINGS/ WORKSHOPS ATTENDED; GRANTS RECEIVED; OTHER ACTIVITIES	HONORS RECEIVED/POSITION
Benito S. Vergara	<p>1. Publications, as co-author:</p> <p>a. Intraspecific variation in rice due to elevated UV-B radiation. <i>Phil J. of Crop Science</i> 17: Suppl. 1 p. S42</p> <p>b. Seed density in relation to seedling quality and crop establishment in <i>Oryza sativa</i> L. <i>Phil J. of Crop Science</i> 15:137-145</p> <p>c. Morpho-anatomical characteristics of different panicles in low and high tillering rices. <i>Korean J. of Crop Science</i> 36(6): 568-575</p> <p>d. Grain yield potential of a low-tillering large panicle type in rice. <i>Korean J. of Crop Science</i> 37 (Suppl. 1): 361-371</p> <p>e. Split application of nitrogen and development of vascular bundles in rice. <i>Korean J. of Crop Science</i> 37 (Suppl. 1): 38-39</p> <p>f. Sucrose uptake of individual spikelets in rice. In: <i>Research in Photosynthesis</i> 4:709-710</p> <p>g. A low tillering ideotype of rice plant for increasing grain yield potential. <i>Korean J. of Crop Science</i> 36:134-142</p> <p>h. Intraspecific variation in sensitivity to UV-β radiation in rice. <i>Crop Sciences</i> 33:1041-1046</p> <p>i. Effect of plant growth regulators on vascularization of the peduncle and sink activity in rice. <i>RDA J. Agric. Sci. (Rice)</i> 35(2):25-31</p>	<p>1. Attended 92nd Annual Meeting of American Society of Horticulture Science, Montreal, Canada, 30 July-2 August</p>	

Table 11 cont...

ACADEMICIAN	RESEARCHES/PUBLICATIONS/ COMPLETED WORKS AWAITING PUBLICATION	CONFERENCES/SEMINARS/ CONGRESSES/SYMPOSIA/MEETINGS/ WORKSHOPS ATTENDED; GRANTS RECEIVED; OTHER ACTIVITIES	HONORS RECEIVED/POSITION
Benito S. Vergara cont...	<p>j. Determination of the optimum tillers in different rice cultivars for high yield. Korean J. of Crop Science 38(2): 103-111</p> <p>k. Further observations on the "contraction stage of microscope" in rice (<i>Oryza sativa</i> L.). J. South China Agric. University 8(1):19-24</p> <p>l. Intraspecific responses of 188 rice cultivars to enhance UV-B radiation. Environ. & Exptl. Botany 34:433-442</p> <p>m. Amelioration of drought-induced transplanting shock in rice by an abscisic acid analog in combination with the growth retardant tetacyclis. J. Agron. & Crop Science 174: 145-150</p> <p>n. Response of rice (<i>Oryza sativa</i> L.) cultivars from China to low temperature stress. Phil J. of Crop Science 18(2):99-106</p> <p>o. Development of small vascular bundles of different tillers as affected by nitrogen levels in rice plants. Korean J. of Crop Science 39:366-372.</p>		
Prescillano M. Zamora	<ol style="list-style-type: none"> 1. Monographic study of Philippine <i>Selaginella</i> 2. Shoot apical meristem organization of <i>Selaginella</i>. Science Diliman 5 (1992, 1):1-9. 3. Diversity of Flora in the Philippine Mangrove Ecosystem. UP CIDS Report 1:1-62. 	<ol style="list-style-type: none"> 1. Speaker and co-convenor, Symposium Workshop on Biodiversity Conservation, Bahay Kalinaw, UP Diliman, 18 January 2. Participant, Workshop for first stage selection of FPE INNOTECH, Diliman, 16 February 	<ol style="list-style-type: none"> 1. Member, Board of Editors, Asia Life Sciences, The Asian International Journal of Life Sciences 2. Convenor, UP CIDS-NAST Biodiversity Conservation Program 3. Program Director, UP CIDS-Conservation Program, UP Diliman, Quezon City

Table 11 cont...

ACADEMICIAN	RESEARCHES/PUBLICATIONS/ COMPLETED WORKS AWAITING PUBLICATION	CONFERENCES/SEMINARS/ CONGRESSES/SYMPOSIA/MEETINGS/ WORKSHOPS ATTENDED; GRANTS RECEIVED; OTHER ACTIVITIES	HONORS RECEIVED/POSITION
Prescilano M. Zamora cont...		3. Participant, 1st Interagency Consultative Meeting, Phil-Sabah Transboundary Protected Area Project and Marine Turtle Foundation, PCED Hostel, UP Diliman 4. Resource Speaker, "Some Aspects of Mangrove Ecology" Subic Bay Freeport Zone, 17 March 5. Participant, Goal-Oriented Project Planning, UP Diliman, IFC Hostel, UPLB, Laguna, 26-30 June 6. Participant, 17th ASM, PICC, 12-13 July 7. Participant, UP-MSU Conference on the state-of-the-art research on Mindanao, Gen. Santos City, 24-25 July 8. Participant, Experts Group Meeting for Data Review, Phil Biodiversity Country Study, PSSC, UP Diliman 28 July 9. Speaker, Biodiversity Country Study Report Presentation: Part 1, SEARCA Auditorium, UPLB, College, Laguna, 21-22 September 10. Participant, 2nd Experts Meeting to Review Draft National Biodiversity Country Study, INNOTECH, Diliman, 30 October	4. Member, Task Force to Conceptualize UP Mindanao Arts and Sciences Program, July-September 5. Recipient, PNOG DJ Professional Chair in Biology, CS, UP Diliman 6. External Evaluator, Faculty of Science and Environmental Studies, Universiti Pertanian Malaysia (1995-1997) 7. Mangrove Research Specialist, Gov't of Bangladesh-World Bank Forest Resources Management Project, Kulna, Barisal, April-June 8. National Consultant in Botany, UNEP-DENR PROJECT: Philippine Biodiversity Country Study (July-December)