



## **6th ANNUAL SCIENTIFIC MEETING**

**12 JULY 1984**

**UNIVERSITY OF THE PHILIPPINES**

**DILIMAN, QUEZON CITY**

**NATIONAL ACADEMY OF SCIENCE AND TECHNOLOGY**  
6th Annual Scientific Meeting  
12 July 1984

**MORNING**

8:30 a.m. . . . . Plenary Session  
(Malcolm Hall Theater)  
\* National Anthem  
\* Welcome Address  
– Dr. Paulo C. Campos  
President  
  
\* Introduction of Guest Speaker  
Dr. Roger R. Posadas (Dean) College of Science  
University of the Philippines  
Diliman, Quezon City  
  
\* Address  
Dr. Ernesto G. Tabujara  
Chancellor University of the Philippines  
Diliman, Quezon City

10:00 a.m. . . . . Scientific Sessions  
(PCED Hostel)

12:00 noon . . . . . LUNCH BREAK

**AFTERNOON**

3:00 p.m. . . . . Scientific Sessions  
(PCED Hostel)

**SESSION A (Biological Sciences) – West Lounge**

Moderator: Dr. Clare R. Baltazar

**MORNING**

10:00 . . . . . *“Multi-Adversity Resistance Breeding Procedure in Cotton in the Philippines”*

Rodolfo P. Cabangbang, Ph.D.  
Outstanding Young Scientist 1982

*Discussants:*

Dr. Gregorio B. Begornia  
Dr. Manuel M. Lantin

10:45 . . . . . *“Mutagenic Response of Peanut (Arachis hypogaea L.) to Fast Neutrons”*

Joventino D. Soriano, Ph.D., Academician

*Discussants:*

Dr. Adoracion Arañez  
Dr. M.S. Swaminathan  
Dr. Prescillano Zamora

11:00 . . . . . *“Studies on the Culture of Earthworms for Animal Feed and Fertilizer in the Philippines”*

Rafael D. Guerrero III, Ph.D.  
Outstanding Young Scientist 1980

*Discussants:*

Dr. Juliana Dacayo  
Dr. Perla Lopez

12:15 . . . . . LUNCH BREAK

**AFTERNOON: – Seminar Room 102-104**

1:30 . . . . . *“Increasing the Efficacy and Safety of Butachlor and its 2,4-D Mixture in Direct Wet-Seeded Rice (Oryza Sativa L.)”*

Ponciano S.M. Halos, Ph.D.  
Outstanding Young Scientist 1983

*Discussant:*

Dr. Keith Moody

2:15 . . . . . *“Collection and Taxonomic Studies of the Bluegreen Algae and General Pollution ”*

Gregorio T. Velasquez, Academician  
and National Scientist

*Discussants:*

Dr. Joventino D. Soriano  
Dr. Macrina Zafaralla

3:00 . . . . . *“Husbandry of Seaweeds: A Socio-Economic Issue”*

Paciente A. Cordero, Ph.D.  
Outstanding Young Scientist 1981

*Discussants:*

Dr. Julia B. Pantastico  
Dr. Gregorio T. Velasquez

3:45 . . . . . *“Quality Assurance in the Fish Processing Industry”*

Florian M. Orejana, Ph.D.  
Outstanding Young Scientist 1980

*Discussants:*

Ms. Gloria Guevarra  
Dr. Richard Po

**SESSION B (Chemistry) – Seminar Room 103-105**

Moderator: Dr. Bienvenido O. Juliano

**MORNING:**

10:00 . . . . . *“The Charge Transfer Bonds of bis - N, N’ Diphenylthioureadichlorocobalt (II) Complex as an Indicator of Electron Transfer Reactions”*

Luzvisminda U. Rivero, Ph.D.  
Outstanding Young Scientist 1983

*Discussants:*

Dr. Fabian Dayrit  
Dr. Cristina Padolina  
Dr. Nestor Valera

10:45 . . . . . *“Anti-mutagenic Effects of Some Inorganic Biochemical System”*

Clara Y. Lim-Sylianco, Ph.D., Academician

*Discussant:*

Dr. Alumanda de la Rosa

11:30 . . . . . *“Chromatographic Analysis of Carbohydrates in Coconut Water”*

Ernesto J. del Rosario, Ph.D.  
Outstanding Young Scientist 1980

*Discussants:*

Dr. Florinia E. Merca  
Dr. Ricardo R. del Rosario  
Dr. Evelyn Mae Tecson-Mendoza

12:15 . . . . . **LUNCH BREAK**

**AFTERNOON**

1:30 . . . . . *“The Coconut Palm as a Source of Firewood”*

Julian A. Banzon, Ph.D., Academician

*Discussants:*

Dr. Pancraccio Bawagan  
Dr. Ernesto Lozada  
Dr. Florentino Tesoro

**SESSION C (Social Sciences) – Seminar Room 102-104**

**Moderator: Dr. José Encarnación, Jr.**

**MORNING:**

10:00 ..... *“Institutions in the Transformation of Rural Society”*

Amando M. Dalisay, Ph.D., Academician

*Discussants:*

Dr. Virginia Samonte

Dr. Paz E. Saplala

10:45 ..... *“Consistency Conditions for Group Decisions”*

José Encarnación, Jr., Ph.D., Academician

*Discussants:*

Dr. Tito A. Mijares

Fr. Bienvenido F. Nebres

11:30 ..... *“Fertility and Family Planning Behavior in the Bicol River Basin”*

Alejandro N. Herrin, Ph.D.

Outstanding Young Scientist 1982

*Discussants:*

Dr. Marilou P. Costello

Dr. Lita Domingo

12:15 ..... LUNCH BREAK

**SESSION D (Medicine) – West Lounge**  
Moderator: Dr. Paulo C. Campos

**AFTERNOON**

1:30 . . . . . *“Bacteria Identified in Diarrheal  
Stools of Early Childhood and Sensi-  
tivity Tests, Metro Manila (1980-1982)*

Fe del Mundo, M.D., Academician and  
National Scientist

*Discussants:*

Dr. Virginia Basaca-Sevilla  
Dr. Hilda Kleiner

2:15 . . . . . *“Effect of Treatment Regimen on  
Reinfection of Soil Transmitted  
Helminthiasis in the Philippines”*

Benjamin D. Cabrera,, M.D., Academician

*Discussants:*

Dr. John Cross  
Dr. Edito G. Garcia

**SESSION E (Math/Physics) – Seminar Room 103-105**

**Moderator: Fr. Bienvenido F. Nebres**

**AFTERNOON:**

**2:15 . . . . . “Cycle Graphs”**

**Severino V. Gervacio, Ph.D.  
Outstanding Young Scientist 1981**

***Discussants:***

**Dr. Norman F. Quimpo  
Dr. Rolando E. Ramos**

**3:00 . . . . . “Acoustic Emission”**

**Dr. Juan Ferrer  
Filipino nuclear fusion expert**



## NATIONAL ACADEMY OF SCIENCE AND TECHNOLOGY

### National Scientists:

Francisco M. Fronda, Ph.D.	Alfredo C. Santos, Dr. phil.
Fe del Mundo, M.D.	Francisco O. Santos, Ph.D.*
Geminiano T. de Ocampo, M.D.	Carmen C. Velasquez, Ph.D.
Eduardo A. Quisumbing, Ph.D.	Gregorio T. Velasquez, Ph.D.
Casimiro del Rosario, Ph.D.*	Gregorio Y. Zara, Dr. Sci.*
Juan S. Salcedo, Jr., M.D.	

### Academicians:

Teodoro A. Agoncillo, Litt. D. (honoris causa)	Cecilio F. Lopez, Dr. phil.*
Encarnacion Alzona, Ph.D.	Melecio S. Magno, Ph.D.
Clare R. Baltazar, Ph.D.	Fe del Mundo, M.D.
Julian A. Banzon, Ph.D.	Tito A. Mijares, Ph.D.
Luz O. Belardo, Ph.D.	Bienvenido F. Nebres, S.J.
Benjamin D. Cabrera, M.D.	Geminiano T. de Ocampo, M.D.
Paulo C. Campos, M.D.	Faustino T. Orillo, Ph.D.
Magdalena C. Cantoria, Ph.D.	Eduardo A. Quisumbing, Ph.D.
Gelia T. Castillo, Ph.D.	Jose N. Rodriguez, M.D.*
Amando M. Dalisay, Ph.D.	Casimiro del Rosario, Ph.D.*
Conrado S. Dayrit, M.D.	Juan S. Salcedo, M.D.
José Encarnación, Jr., Ph.D.	Alfredo C. Santos, Dr. phil.
Pedro B. Escuro, Ph.D.	Francisco O. Santos, Ph.D.*
Raymundo A. Favila, Ph.D.	Joventino D. Soriano, Ph.D.
Francisco M. Fronda, Ph.D.	Clara Y. Lim-Sylianco, Ph.D.
Emerita V. de Guzman, Ph.D.*	Dioscoro L. Umali, Ph.D.
Emil Q. Javier, Ph.D.	Jose R. Velasco, Ph.D.
Bienvenido O. Juliano, Ph.D.	Carmen C. Velasquez, Ph.D.
Jose O. Juliano, Ph.D.	Gregorio T. Velasquez, Ph.D.
Alfredo V. Lagmay, Ph.D.	Gregorio Y. Zara, Dr. Sci.*
Hilario D.G. Lara, M.D.	

\* Deceased

