



NATIONAL ACADEMY OF SCIENCE AND TECHNOLOGY

7th ANNUAL SCIENTIFIC MEETING

July 18, 1985

NAST

Q

75

A56

1985

THE INTERNATIONAL CONVENTION CENTER,
OXAS BOULEVARD, METRO MANILA

This serves as an invitation

**NATIONAL ACADEMY OF SCIENCE AND
TECHNOLOGY**

**7th Annual Scientific Meeting
18 July, 1985**

MORNING

9:00 a.m. Registration

**9:30 a.m. Plenary Session (Meeting
Room 5)**

National Anthem

**President's Report
Dr. Paulo C. Campos**

**Remarks by the Chairman of
the Scientific Meeting
Dr. Melecio S. Magno**

10:30 a.m. Scientific Sessions

12:00 noon LUNCH

AFTERNOON

1:00 p.m. Scientific Sessions

**4:00 p.m. Investiture of New Academicians
(Meeting Room 5)**

Scientific Session A (Medicine) — Meeting Room 5
MODERATOR: Dr. Paulo C. Campos

MORNING

**10:30 a.m. "Pseudomonas Infection in
Hospitalized Infants and
Children in Metro Manila,
1984"**

**FE DEL MUNDO, Academician
National Scientist**

DISCUSSANTS:

**Dr. Rosita Brillantes
Dr. Hilda Lim Kleiner**

**11:00 a.m. . . . "Mechanisms and Timing
of Diastolic Electrical
Heterogeneity in Diseased
Human Ventricle"**

**WILLIAM T. CHUA, M.D.
Outstanding Young Scientist '84**

DISCUSSANTS:

**Dr. Conrado S. Dayrit
Dr. Santiago de Guzman**

**11:30 a.m. . . . "Reinfection and Infection
Rates of Ascariasis in Relation
to Seasonal Variation"**

**BENJAMIN D. CABRERA,
Academician**

DISCUSSANTS:

**Dr. Ruben Umaly
Dr. Amante Cruz**

Dr. Gloria Enriquez

12:00 noon . . . LUNCH

**Scientific Session B (Biological Sciences) – Meeting
Room 8**

MODERATOR: Dr. Carmen C. Velasquez

MORNING

**10:30 a.m. . . . “The Technology of Research
in the Blue-Green Algae and
Relevance to Philippine
Economy”**

**GREGORIO T. VELASQUEZ,
Academician and National
Scientist**

DISCUSSANTS:

**Dr. Flordeliz R. Uyenco
Dr. Adoracion T. Arañez**

**11:00 a.m. . . . “Phytoplankton Population, A
Component to the Potentially
Productive Municipal Waters of
Estancia, Iloilo”**

**PACIENTE A. CORDERO, JR.
Ph.D., Outstanding Young
Scientist '81**

DISCUSSANTS:

**Dr. Milagrosa Martinez
Prof. Zosima Vicencio**

**11:30 a.m. . . . “Effect of Breeder Size on Fry
Production of Nile Tilapia in
Concrete Pools”**

**RAFAEL D. GUERRERO III,
Ph.D., Outstanding Young
Scientist '80**

DISCUSSANTS:

**Mr. Tereso Abella
Mr. Melchor Tayamen, Jr.**

12:00 noon . . . LUNCH

Scientific Session B (Biological Sciences) – Meeting
Room 8

MODERATOR: Dr. Carmen C. Velasquez

AFTERNOON

1:00 p.m. "Intraspecific Karyological
Differences and Phenotypic
Variations in Sorghum"

JOVENTINO D. SORIANO,
Academician

DISCUSSANTS:

Dr. Adoracion T. Arañez
Dr. Isagani Florencio Medina III
Dr. Dolores M. Ramirez
Dr. Prescillano M. Zamora

1:30 p.m. "Notes on Two Mentha Hybrids
Grown in the Philippines"

MAGDALENA C. CANTORIA
Academician

DISCUSSANTS:

Dr. Domingo A. Madulid
Dr. Mildred B. Oliveros

2:00 p.m. "Boron
Deficiency in Adobe Derived
Soils of Eastern Cavite"

JOSE R. VELASCO,
Academician

DISCUSSANTS:

Dr. Enrique Pacardo

2:30 p.m. "Application of Elevated
Temperature in Fish Sauce
Manufacture from anchovies
(*Stolephorus* sp.)"

FLORIAN M. OREJANA,
Ph.D., Outstanding Young
Scientist '80

DISCUSSANTS:

Ms. Gloria Guevarra
Ms. Olympia Gonzales

Scientific Session C (Chemistry) — Meeting Room 7
MODERATOR: Dr. Julian A. Banzon

MORNING:

10:30 a.m. . . . "Quantitative Aspects in the
Saponification of Coconut
Oil by Cold Process"

JULIAN A. BANZON,
Academician

DISCUSSANTS:

Dr. Leopoldo Castillo
Dr. William Padolina

11:00 a.m. "Preliminary Study on the
Essential Oil of *Canarium
luzonicum* (Blume) A. Gray
as a Possible Supplement to
Diesel Oil"

LUZ OLIVEROS-BELARDO
Academician

DISCUSSANTS:

Mr. Ronald Mendoza
Miss Lydia C. Crisostomo

11:30 a.m. "Continuous — Flow Fermen-
tation of Sugar into Ethanol
Using Immobilized Yeast"

ERNESTO J. DEL ROSARIO,
Ph.D., Outstanding Young
Scientist '80

DISCUSSANTS:

Dr. Pham Binh Chay
Dr. Perfecto Q. Flor
Dr. Lydia Joson

12:00 noon . . . LUNCH

Scientific Session C (Chemistry) —Meeting Room 7
MODERATOR: Dr. Julian A. Banzon

AFTERNOON

1:00 p.m. "Factors Affecting the Nutri-
tional Value of Rice Protein"

BIENVENIDO O. JULIANO,
Academician

DISCUSSANTS:

Dr. Evelyn Mae Tecson-
Mendoza

Dr. Ernesto J. del Rosario

1:30 p.m. "Galactomannan Metabolism
in Developing Normal and
Makapuno Coconut Endo-
sperms"

**EVELYN MAE TECSON-
MENDOZA, Ph.D.**
Outstanding Young Scientist '84

DISCUSSANTS:

Dr. Alumanda de la Rosa

Dr. Julian A. Banzon

2:00 p.m. "Mutagenicity and Clastogeni-
city Potential of Gusathion A.,
Carvil and Lannate"

CLARA Y. LIM-SYLIANCO,
Academician

DISCUSSANTS:

Dr. Alumanda de la Rosa

Prof. Angelita Reyes

2:30 p.m. "A 6800-Microprocessor-Based
Potentiometric Stripping
Analyzer"

VICTORIA A. VICENTE,
Ph.D., Outstanding Young
Scientist '80

DISCUSSANT:

Dr. Amando Kapauan

**Scientific Session D (Social Sciences) – Meeting
Room 6**

MODERATOR: Dr. José Encarnación, Jr.

MORNING

10:30 a.m. . . . "Women in Rice Farming
Systems"

GELIA T. CASTILLO,
Academician

DISCUSSANTS:

Dr. Isagani Sarmiento
Dr. Cynthia Bautista
Ms. Esther Manigque

11:00 a.m. . . . "An Econometric Analysis of
Some Aspects of Philippine
Education"

VICENTE P. PAQUEO, Ph.D.
Outstanding Young Scientist '83

DISCUSSANT:

Prof. Ruperto Alonzo

11:30 a.m. . . . "Demographic Trends and
Economic Crisis"

ALEJANDRO N. HERRIN,
Ph.D., Outstanding Young
Scientist '82

DISCUSSANTS:

Dr. Corazon M. Raymundo
~~Dr. Luisa Engracia~~

12:00 noon . . . LUNCH

**Scientific Session E (Mathematics/Physics/Engineering)
— Meeting Room 5
MODERATOR: Dr. Melecio S. Magno**

AFTERNOON

**1:00 p.m. "Modern Formulations of
Covariant Physical Theories"**

**ROGER POSADAS, Ph.D.
Outstanding Young Scientist '84**

DISCUSSANTS:

**Dr. Christopher C. Bernido
Dr. Jose Magpantay**

1:30 p.m. "N-Cycle Block Design Graphs"

**SEVERINO V. GERVACIO,
Ph.D., Outstanding Young
Scientist '81**

DISCUSSANTS:

**Dr. Rolando E. Ramos
Dr. Jose Bernaldez**

**2:00 p.m. "A Predictive Model for
Cadmium Concentration in
Water Reservoirs"**

**FILEMON A. URIARTE, JR.,
Ph.D., Outstanding Young
Scientist '84**

DISCUSSANTS:

**Dean Marino M. Mena
Dr. Rufino Lirag, Jr.**

Scientific Session F (Agriculture) – Meeting Room 5
MODERATOR: Dr. Dioscoro L. Umali

AFTERNOON

**2:30 p.m. “Breeding for Low-Input
Cultivars of Vegetable Crops”**

EUFEMIO T. RASCO, Ph.D.
Outstanding Young Scientist '84

DISCUSSANTS:

Dr. Ricardo M. Lantican
Dr. Ruben Villareal

**NAST Executive Council
(1982 – 1985)**

Dr. Paulo C. Campos
President

Dr. Melecio S. Magno
Vice President

Dr. Tito A. Mijares
Secretary

Dr. Carmen C. Velasquez
Member

Dr. Jose Encarnacion, Jr
Member

Dr. Raymundo A. Favila
Member

Dr. Dioscoro L. Umali
Member

National Scientists

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

* Deceased

