



NATIONAL ACADEMY OF SCIENCE AND TECHNOLOGY

**9th
ANNUAL
SCIENTIFIC
MEETING**

July 15, 1987

PHILIPPINE INTERNATIONAL CONVENTION CENTER
ROXAS BOULEVARD, METRO MANILA

This serves as invitation

1:40 "A Study on the *Gliricidia sepium* Germplasm Collection in VISCA"

Ernesto C. Bumatay
Visayas State College of Agriculture
Baybay, Leyte

2:00 "The Development of a Monitoring System for Corn Borer *Ostrinia furnacalis* (Guenee) Pyralidae: Lepidoptera

Bonifacio F. Cayabyab
National Crop Protection Center
University of the Philippines at Los Baños
College, Laguna

2:20 "Corn Pathology Research of Pioneer Corporation in the Philippines"

Samuel C. Dalmacio
Pioneer Overseas Corporation Research
Station
Banlu, Cabuyao, Laguna

2:40 "Raising the Yield Potential of Rice"

Benito S. Vergara
International Rice Research Institute
College, Laguna

3:00 B r e a k
(Delegates' Lounge)

2:20 "An Attempt to Eradicate Ascariasis and Hookworm Infection in an Island in Sorsogon"

Academician **Benjamin D. Cabrera**
Institute of Public Health
University of the Philippines Manila
Pedro Gil, Ermita, Manila

3:00 **B r e a k**
(Delegates' Lounge)

NAST Executive Council (1985-1988)

Paulo C. Campos	— President
Melecio S. Magno	— Vice-President and Secretary
Julian A. Banzon	— Member
José Encarnación, Jr.	— Member
Alfredo V. Lagmay	— Member
Dioscoro L. Umali	— Member
Carmen C. Velasquez	— Member

National Scientists

Teodoro A. Agoncillo, Litt. D. (*h.c.*)⁺
Encarnación Alzona, Ph.D.
Julian A. Banzon, Ph.D.
Francisco M. Fronda, Ph.D.⁺
Hilario D.G. Lara, M.D., Dr. P.H.
Fe del Mundo, M.D.
Geminiano T. de Ocampo, M.D.
Eduardo A. Quisumbing, Ph.D.⁺
Casimiro del Rosario, Ph.D.⁺
Juan S. Salcedo, Jr., M.D., D.Sc. (*h.c.*)
Alfredo C. Santos, Dr.phil.
Francisco O. Santos, Ph.D.⁺
Dioscoro L. Umali, Ph.D.
Carmen C. Velasquez, Ph.D.
Gregorio T. Velasquez, Ph.D.
Gregorio Y. Zara, D.Sc.⁺

⁺ deceased

4:20 "Solid Fuels from the Coconut"

National Scientist **Julian A. Banzon**
Faculty Hill
College, Laguna

4:40 "Inhibitory Effects on Somatic and Germ Cell
Genotoxicity of Nitrosamines"

Academician **Clara Y. Lim-Sylianco**
Department of Chemistry
College of Science
University of the Philippines
Diliman, Quezon City

Scientific Session II: Biological Sciences

Wednesday, July 15, 1987: Meeting Room 7

Chairman: National Scientist **Carmen C. Velasquez**

1:20 "Observation on the Sea Vegetable Algae of
Panay Island, Central Philippines"

Paciente A. Cordero, Jr. (OYS '81)
National Museum
Liwasang Rizal
Manila

1:40 "The Insecticidal Actions of Some Indigenous
Plants with Special Reference to Makabuhai
(*Tinospora rumphii* Boerl.)"

Belen Morallo-Rejesus
Institute of Biological Sciences
University of the Philippines at Los Baños
College, Laguna

2:00 "Zoogeographical Affinities of Paramphistomids of Ruminants"

Salcedo L. Eduardo (OYS '80)
College of Veterinary Medicine
University of the Philippines at Los Baños
College, Laguna

2:20 "Biomass Prediction Equations for Giant Ipil-
Ipil (*Leucaena leucocephala* (Lam.) de Wit)"

Leuvina M. Tandug
Forest Research Institute
University of the Philippines at Los Baños
College, Laguna

2:40 "Interspecific Relationships in Genus *Oryza* of
the Southeast Asia-Pacific Region"

Academician Joventino D. Soriano
Institute of Biology
College of Science
University of the Philippines
Diliman, Quezon City

3:00 **B r e a k**
(Delegates' Lounge)

3:20 "Spermatogenesis in *Tilapia nilotica*:
An Ultrastructure Study"

Annabelle A. Herrera
Institute of Biology
College of Science
University of the Philippines
Diliman, Quezon City

3:40 **"In vitro** Hepatic Microsomal Activation of Chlorine-Substituted Naphthoquinone Pesticide: Dichlone in Channel Catfish (*Ictalurus punctatus* L.)"

Armando A. Andaya
Department of Biology
College of Science
De La Salle University
Taft Avenue, Manila

4:00 **"Utilization of Protoplast Fusion in Genetic Analysis and Stress Improvement in Antibiotic Producing Microorganisms"**

Asuncion K. Raymundo
Institute of Biological Sciences
College of Arts and Sciences
University of the Philippines at Los Baños
College, Laguna

4:20 **"Production of Antiserum and Initial Hybridomas Against Papaya Ring Spot"**

Teresita Espino
Institute of Biotechnology
University of the Philippines at Los Baños
College, Laguna

4:40 **"Identification of a Cloned Methionine Biosynthetic Gene of the Cyanobacterium Synechococcus PCC7942 by Heterologous DNA Hybridization"**

Debbie O. Co
Institute of Biology
College of Science
University of the Philippines
Diliman, Quezon City

Scientific Session III: Social Sciences

Wednesday, July 15, 1987: Meeting Room 4

Chairman: Academician **José Encarnación, Jr.**

3:20 "Economic and Demographic Adjustments to
Economic Stress: The Case of Urban Poor"

Alejandro N. Herrin (OYS '82)
School of Economics
University of the Philippines
Diliman, Quezon City

3:40 "The Filipina Looks at Herself"

Amaryllis T. Torres (OYS '85)
Institute of Social Work and Community
Development
University of the Philippines
Diliman, Quezon City

Scientific Session IV: Agricultural Sciences

Wednesday, July 15, 1987: Function Room BC

Chairman: National Scientist **Dioscoro L. Umali**

1:20 "Genotype-Environment Interaction in Flue-
Cured Tobacco (*Nicotiana tabacum* L.)"

Philbert S. Bonilla
Philippine Tobacco Research and
Training Center
Mariano Marcos State University
Batac, Ilocos Norte

**NATIONAL ACADEMY OF SCIENCE
AND TECHNOLOGY**
9th Annual Scientific Meeting
July 15, 1987

MORNING

9:00 **REGISTRATION AND COFFEE**
(Coffee at Delegates' Lounge)

9:40 **OPENING SESSION**
(Meeting Room 4)

National Anthem

Welcome Address
Academician **Paulo C. Campos**
NAST President

Remarks by the Chairman of the
Scientific Meeting
Academician **Joventino D. Soriano**

10:00 **PLENARY SESSION**
(Meeting Room 4)

"On Aging, Old Age and Senility"

Academician **Conrado S. Dayrit**

Moderator:
Academician **Benjamin D. Cabrera**

12:00 **Lunch**
(Cafeteria)

AFTERNOON

1:20 SCIENTIFIC SESSIONS

Scientific Session I (Meeting Room 8)
Mathematical and Physical Sciences page 4

Scientific Session II (Meeting Room 7)
Biological Sciences page 6

Scientific Session III (Meeting Room 4)
Social Sciences page 9

Scientific Session IV (Function Room BC)
Agricultural Sciences page 9

Scientific Session V (Meeting Room 4)
Health Sciences page 12

3:00 Break
(Delegates' Lounge)

3:20 CONTINUATION OF SCIENTIFIC SESSIONS

5:30 INVESTITURE OF NEW ACADEMICIANS
(Meeting Room 4)

SUMMARY OF PAPER PRESENTATIONS

TIME	SESSION I (Meeting Room 8)	SESSION II (Meeting Room 7)	SESSION III/V (Meeting Room 4)
1:20	E. Albacea	P. Cordero	Q. Kintanar
1:40	A. Concepcion	E. Morallo-Rejesus	F. del Mundo
2:00	R. Felix	S. Eduardo	R. Florentino
2:20	S. Gervacio	L. Tandug	B. Cabrera
2:40	R. Padua	J. Soriano	
3:00	B r e a k	B r e a k	B r e a k
3:20	M. de Ramos	A. Herrera	A. Herrin
3:40	D. Yanga	A. Andaya	A. Torres
4:00	P. Sevilla-Santos	A. Raymundo	
4:20	J. Banzon	T. Espino	
4:40	C. Lim-Sylianco	D. Co	

SESSION IV (Function Room BC)

1:20	P. Bonilla	3:20	R. Javier
1:40	E. Bumatay	3:40	G. Medina
2:00	B. Cayabyab	4:00	E. Tiongco
2:20	S. Dalmacio	4:20	L. Tolentino
2:40	B. Vergara	4:40	L. Trung
3:00	B r e a k		

Scientific Session I: Mathematical and Physical Sciences
Wednesday, July 15, 1987; Meeting Room 8
Chairman: Academician **Melecio S. Magno**

1:20 "A Flexible Peephole Optimization Method
for Intermediate Codes"

Eliezer A. Albacea
Institute of Mathematical Sciences & Physics
University of the Philippines at Los Baños
College, Laguna

1:40 "Distributed Control Using a Hierarchy of
Coordinators"

Arturo L. Concepcion
College of Computer Studies
De La Salle University
Taft Avenue, Manila

2:00 "Sublattices of Orthogonal Lattices"

Rene P. Felix
Department of Mathematics
University of the Philippines
Diliman, Quezon City

2:20 "On the Lexicographic Order of the
n-Permutations"

Severino V. Gervacio (OYS '84)
Graduate School
Iligan Institute of Technology
Tibanga, Iligan City

2:40 "A Generalized Asymptotic Theory of L-Estimates"

Roberto N. Padua
Mathematics Department
De La Salle University
Taft Avenue, Manila

3:00 B r e a k
(Delegates' Lounge)

3:20 "Sample Size Determination in Post Harvest Experiments"

Mariano B. de Ramos
Institute of Mathematical Sciences and
Physics
University of the Philippines at Los Baños
College, Laguna

3:40 "Stationary Property of an Arbitrary Fermionic Function and Chiral U(1) Anomaly in Stochastic Field Quantization"

Danilo M. Yanga (OYS '86)
National Institute of Physics
University of the Philippines
Diliman, Quezon City

4:00 "Oxytetracycline Production in Coconut Water" r"

Patrocinio Sevilla-Santos
Research Center for the Natural Sciences
University of Santo Tomas
España, Manila

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Paulo C. Campos, M.D.
Magdalena C. Cantoria, Ph.D.
Gelia T. Castillo Ph.D.
Amando M. Dalisay, Ph.D.+
Conrado S. Dayrit, M.D.
José Encarnación, Jr., Ph.D.
Pedro B. Escuro, Ph.D.
Raymundo A. Favila, Ph.D.
Francisco M. Fronda, Ph.D.⁺
Emerita V. de Guzman, Ph.D.⁺
Emil Q. Javier, Ph.D.
Bienvenido O. Juliano, Ph.D.
Jose O. Juliano, Ph.D.
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Bienvenido F. Nebres, S.J., Ph.D.
Geminiano T. de Ocampo, M.D.
Luz Oliveros-Belardo, Ph.D.
Faustino T. Orillo, Ph.D.
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