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ACADEMY NEWS

VOL.4

NO. 2

NATIONAL ACADEMY OF SCIENCE AND TECHNOLOGY
National Science and Technology Authority

National Scientists:

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

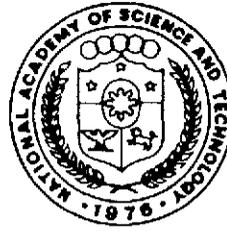
Executive Council

Paulo C. Campos - President
Alfredo V. Lagmay - Vice-President
Tito A. Mijares - Secretary
Alfredo C. Santos - Member
Carmen C. Velasquez - Member

Academicians:

Teodoro A. Agoncillo, Litt. D. (honoris causa)
Encarnacion Alzona, Ph.D.
Claire R. Baltazar, Ph.D.
Julian Banzon, Ph.D.
Luz O. Belardo, Ph.D.
Paulo C. Campos, M.D.
Magdalena C. Cantoria, Ph.D.
Amando M. Dalisay, Ph.D.
Conrado S. Dayritt, Ph.D.
Jose Encarnacion, Jr., Ph.D.
Pedro B. Escuro, Ph.D.
Raymundo A. Favila, Ph.D.
Francisco M. Fronda, Ph.D.
Emerita V. de Guzman, Ph.D.
Bienvenido O. Juliano, Ph.D.
Alfredo V. Lagmay, Ph.D.
Cecilio F. Lopez, Dr. Phil.*
Melecio S. Magno, Ph.D.
Fe del Mundo, M.D.
Tito A. Mijares, Ph.D.
Geminiano T. de Ocampo, M.D.
Eduardo A. Quisumbing, Ph.D.
Jose N. Rodriguez, M.D.
Casimiro del Rosario, Ph.D.
Juan S. Salcedo, Jr., M.D.
Alfredo C. Santos, Dr. Phil.
Francisco O. Santos, Ph.D.
Joventino D. Soriano, Ph.D.
Clara Y. Lim-Sylianco, Ph.D.
Dioscoro C. L. Umali, Ph.D.
Carmen C. Velasquez, Ph.D.
Gregorio T. Velasquez, Ph.D.
Gregorio Y. Zara, Ph.D.

*deceased



Three New National Scientists Named

Hold 4th Annual Scientific Meet

Everything is set for the 4th Annual Scientific Meeting of the Academy at the PICC on July 14. This date falls during the observance of the National Science and Technology Week (July 11-17), following the Presidential Proclamation to this effect.

The scientific sessions will be held in the afternoon, right after the investiture and lunch in honor of the National Scientists. The session will be held simultaneously with social sciences, engineering, medicine and chemistry sessions at Meeting Room 5, while over at Meeting Room 4, they will take on the biological sciences.

(Please turn to middle fold for the complete program - Ed).

The Academy started holding this scientific meeting way back in May, 1976. Papers were presented for two days at the Asian Institute of Tourism in Diliman, Q. C. In the words of Dr. Paulo C. Campos, President of the NAST, and we quote a portion of his welcome address:

"Today our infant Academy holds its first annual meeting. Its creation is a milestone in the history of science in this country and for that we have to thank our distinguished guest this afternoon, who, as chairman of the NSDB, labored hard for the Presidential
(To page 10)

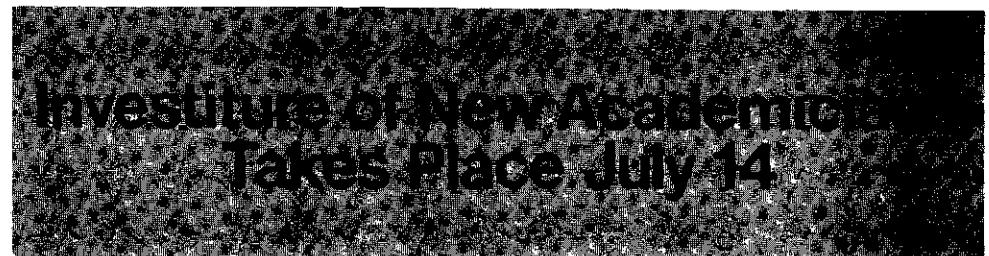
The rank and title of National Scientists was conferred on three Academicians. They are: Geminiano T. de Ocampo, M.D., the science and practice of ophthalmology; Casimiro del Rosario, Ph.D., physics and meteorology and Gregorio Velasquez, Ph.D. tropical phycology (algae). Their outstanding contributions to their respective fields were recognized by their peers with their election to the Academy. And more recently, their being named National Scientist.

The recent announcement from Malacanang brought the number of national scientists to eight. In July, 1978 during the celebration of the National Science and Technology Week, three were named national scientist. They were : Dr. Juan Salcedo, medicine and public health; Dr. Gregorio Zara for engineering and Dr. Alfredo C. Santos, chemistry. Again, in July 1980, proclaimed were : Dr. Fe del Mundo, pediatrics and Dr. Eduardo Quisumbing, botany.

The Academy annually recommends for Presidential Award not more than ten scientists for distinguished individual or collaborative achievement in the sciences. They shall be accorded by the President the rank and title of national scientists. However, the Academy is given the option to recommend to no one the award for any given year.

The proclaimed national scientists are given each a gratuity in amounts fixed by the Academy. They are likewise entitled to other privileges as are enjoyed by the National Artists.

(To next page)



Two scientists will officially join the roster of Academicians after their formal investiture in the morning of July 14 at the PICC. They are: Benjamin D. Cabrera, M.D., parasitology/public health and Emil Q. Javier, Ph. D., plant breeding and genetics.

The new members were elected during the Academy's second regular

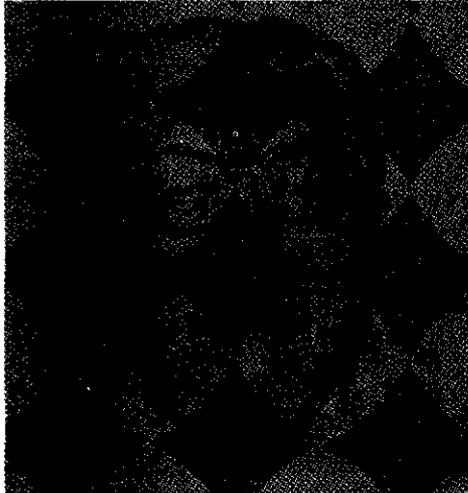
meeting last April 24th at the P.J. Garcia Memorial Hall. The election was held after nominations were made following a series of various individual committee meetings.

This brings the number of Academicians to 31. The decree creating the Academy provides for only 50 members at any one time.

(To page 10)

THREE NEW NATIONAL SCIENTIST (from page 1)

They are:



Dr. Geminiano de Ocampo

Having a vision for the future, he established the first eye hospital in the Philippines when he stepped in as director and ophthalmologist of the De Ocampo Eye Hospital in 1952. Likewise, he conceived and helped established the Philippine Eye Bank in 1950, founded and serving subsequently as president of the Philippine Ophthalmological Society at the same time laid the foundation for the establishment of the Philippine Eye Research Institute and was named its first director.

As an ophthalmic surgeon, he introduced corneal transplantation operation in the Philippines. He is the first Filipino to design an ophthalmological instrument in 1956, popularly known as the de Ocampo corneal dissector. The apparatus was in fact, manufactured by no less than a U.S. firm, the Storz & Co.

As a civic leader, he realized the importance of observing a Sight Saving Week, which he did start in 1953. Hand in hand with this, he worked for the passage and amendment of R.A. 343 on donation of eye ball for corneal transplantation.

Among scores of achievements, he was a recipient of 29 awards and distinctions in medical researches. He was conferred 22 honors which included the Republic Heritage and Cultural Award for Science (1961); Presidential Award for Filipino Life Scientists (1965); the coveted Jose Rizal Award for Excellence, Asia-Pacific Academy of Ophthalmology Singapore (1968); Outstanding Senior Researcher, (1969); and First Ayala Award, Filipinas Foundation, Inc. (1974).

Dr. de Ocampo is a native of Bulacan, born on September 16, 1907 of Juan de Ocampo and Vicenta Tiongson and is married to Amparo Leano, with whom he has four children.



Dr. Gregorio Velasquez

His knowlege and dedicated service in many ways brought growth and development to the biological research in the country. This can be gleaned from his researches and scientific investigations, most specifically on Algology and Phycology.

He has served as Professor of Botany at the University of the Philippines until he was conferred

Professor Emeritus in 1967. He is up to the present a Professor Lecturer at the graduate schools of the UP and the Centro Escolar University.

Dr. Velasquez has delivered and/or published not less than 47 basic researches and more than 70 scientific articles which were published in both foreign and national journals. Recently, the "Selected Biological Researches Relevant to the International Biological Programme" in the proceedings of the First East Asian Countries Workshop at Kyoto earlier last year.

Research workers or students were attracted to his studies or works. It was rather easy for him to build up teams of scientists to work in all the important fields of Botany.

Serving numerous posts, he was vice president and member of Research and Development Center, CEU, 1969; member of the National Committee on Marine Sciences, NSDB, 1963 —; and member of the sub-committee on Pacific Algology of the Pacific Science Botany. Other positions he holds include being Chairman of the Biological Sciences, National Research Council of the Philippines, 1966.

For this, many honors have been conferred upon him such as the National Research Council of the Philippines gave him a Plaque of Merit in 1966. He also received the "Outstanding Scientist Award" in the 25th Foundation Anniversary of the Philippine Association for the Advancement of Science, October 29, 1976. Other awards include the Cultural Heritage Award in Scientist and dedication to the National Botanic Garden given by the Republic of the Philippines on June 12, 1972. He was also a recipient of the much coveted John Simon Guggenheim Memorial Foundation Fellowship in 1956-57.



Dr. Casimiro del Rosario

Dr. del Rosario has broad scientific interest, his study from studies of velocity distribution of thermionic electrons to researches on the effect of radioactive radiation on Euglena to reviews on wavelength of very soft x-rays from heavy element.

In spite of his researches, he found time to fill the directorship of the Philippine Weather Bureau from 1947 to 1959 as an offshoot of his specialization—in the fields of Astronomy and Meteorology. He served as the first vice-chairman and executive director of the NSDB in 1960-61.

He is a member of the Junior Sterling Research Fellowship and the Bartot Foundation Research Fellowship. He came up with seven scientific articles: four were published in the Journal of the Franklin Institute and two in the Physical Review.

After a bachelor's degree from UP, in 1918, he went abroad to specialize in Physics at Yale University where he acquired his M.E. (Physics) in 1924 and obtained his Ph.D. in Physics from the University of Pennsylvania in 1932.

In May 1965, he received the University Alumni Award from U.P. and during the same year, Dr. del Rosario was awarded the Presidential Award for Researches and Achievements in the fields of Physics, Astronomy and Meteorology.

New Members of Executive Council Announced

Malacanang has announced the new Members to compose the Executive Council of the Academy.

They are:

- 1.) Dr. Paulo C. Campos, Medicine;
- 2.) Dr. Jose Encarnacion, Jr., Economics;
- 3.) Dr. Raymundo A. Favila, Mathematics;
- 4.) Dr. Melecio S. Magno, Physics;
- 5.) Dr. Tito A. Mijares, Statistics;
- 6.) Dr. Francisco O. Santos, Chemistry;

mistry; and

- 7.) Dr. Carmen C. Velasquez, Biology.

The present composition of the Academy's Executive Council is a hold over of the first members named by the President in July 1970 at Maharlika Hall. It was also during a celebration of the National Science & Technology Week.

CIOMS Health Confab Sked in Nigeria

A conference on "HEALTH FOR ALL: A CHALLENGE FOR HEALTH MANPOWER DEVELOPMENT RESEARCH" will be held on 23-26 November 1982 at the Conference Center of the University of Ibandan, Ibandan, Nigeria.

Dr. T.A. Lambo, Deputy Director-General of the World Health Organization will address the conference. It is sponsored by, and organized in cooperation with, the World Health Organization, the Federal Ministry of Health of Nigeria, the Federal Ministry of Science and Technology of Nigeria, the College of Medicine of Ibandan, the National Institute for Medical Research of Nigeria and the Lambo Foundation, Nigeria.

A substantial number of persons is expected to attend. The participants represent teaching and

research institutions in health ministries of health, academies of sciences and non-governmental organizations from throughout the world and particularly from African countries and the host country, Nigeria.

All papers and documents relevant to the conference will be available to participants prior to the conference. The official language of the conference will be English and the proceedings will be published and widely distributed and made available free of charge to participants.

The present composition of the Academy's Executive Council is a hold-over of the first members named by the President in July 1970 at Maharlika Hall. It was also during a celebration of the National Science & Technology Week.

Outstanding Young Scientists '82 Awardees Announced

Editors's Note — Awardees for the '82 Outstanding Young Scientists are Carmelo A. Alfiler, Rodolfo P. Cabangbang, Virgilio Enriquez, Alejandro N. Herrin, Jose A. Maresigan, William Padolina, Percy E. Sajise and Benito Tanhehco. Each awardee gets a trophy from the Academy and a cash award of ₱10,000. The contest was launched by the Academy as early as January this year. For the past two years,

the NSDB (now NSTA) in connection with the celebration of the National Science & Technology Week launched the search. However, the selection was given the NAST. The Academy has since then set the guidelines for the selection which started in July 1980.

Relevance of research activities, quality of scientific work and publications and productivity as well as importance of research works were

the criteria used for selecting the awardees.

Being a Filipino citizen, not more than 40 years old on July 10, not a day older, a bachelor's degree holder in any of the sciences, and major researcher of a project or a research activity also made them eligible. In addition an awardee to quality must be willing to read a paper within a year on conferment of the award.



C. Alfiler



R. Cabangbang



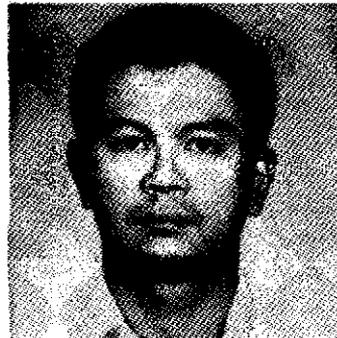
V. Enriquez



A. Herrin



J. Maresigan



W. Padolina



P. Sajise



B. Tanhehco

CARMELO A. ALFILER

Carmelo A. Alfiler, a graduate from the University of the Philippines, College of Medicine with a degree in Doctor of Medicine has for his research interests pediatric renal problems. His experience and research undertakings in the clinical detection, histopathological definition, treatment, prevention and prognostication of common and unusual pediatric renal disorders.

disorders.

Only 31 years old, he already has 17 completed scientific and technological studies. He is a two-time awardee of the Most Outstanding Pediatric Resident UP-PGH Department of Pediatric during the years 1974-1975 and 1975-1976.

RODOLFO P. CABANGBANG

Dr. Rodolfo P. Cabangbang is a cotton breeder, agronomist, research administrator extension

specialist and organizer all rolled into one. His career could be very aptly describe as successful. From being an assistant of Dr. Arturo A. Gomez, Chairman of the Department of Agronomy, UPLB in 1968, he became the Head of the Annual Fibers Section, Dept. of Agronomy in 1973 right after obtaining his doctoral degree in agronomy. During this time also, Dr. Cabangbang embarked on a very comprehensive

NATIONAL ACADEMY OF SCIENCE & TECHNOLOGY
4th Annual Scientific Meeting
14 July 1982

9:00 Registration
10:00 Investiture Program
12:00 Luncheon in honor of National Scientists
1:30 Scientific Sessions

INVESTITURE OF NEW ACADEMICIANS

- o Processional
- o National Anthem
- o Invocation
- o Roll Call
- Secretary
- o Welcome Remarks
- President
- o Oath-Taking
- o Introduction of Speaker
- Alfredo V. Lagmay, Academician

- o Address
- Honorable Emil Q. Javier, Ph.D.
- National Science and Technology Authority
- o Recessional

SCIENTIFIC SESSION (A)
Meeting Room 5

SOCIAL SCIENCES

Chairman: Jose Encarnacion, Jr., Academician

1:30 "THE REINFORCEMENT OF BEHAVIOUR:
THEORETICAL AND PRACTICAL ISSUES
IN AN EXPERIMENTAL CONCEPT"

Alfredo V. Lagmay, Academician

Discussants:

Virgilio G. Enriquez, Ph. D.
Horacio R. Estrada, M.D.
Jaime Bulatao, S.J., Ph. D.

2:00 "THREE LETTERS OF APOLINARIO MABINI

Encarnacion Alzona, Academician

Discussants:

*Serafin D. Quiazon, Ph. D.
Gregorio F. Zaide, Ph. D.*

2:30 "THE RECENT TARIFF REFORM
AND EFFECTIVE PROTECTION
RATES IN MANUFACTURING INDUSTRIES"

Romeo M. Bautista, Ph. D.

Discussants:

*Florian Albano, Ph. D.
Gonzalo Jurado, Ph. D.
Vicente Valdepeñas, Ph. D.*

3:00 "THE PERFORMANCE AND PROSPECTIVE
OF SMALL AND INTERMEDIATE SIZE CITIES"

Ernesto M. Pernia, Ph. D.

Discussants:

*Alejandro A. Herrin, Ph. D.
Leandro Viloria, Ph. D.
Lita S. Domingo, Ph. D.*

3:30 B R E A K

ENGINEERING

Chairman: *Melacio S. Magno, Academician*

4:00 "POLLUTION CONTROL – AN INCENTIVE
FOR MORE EFFICIENT INDUSTRIAL
PROCESS: THE OIL PALM PROCESSING
INDUSTRY AS A CASE STUDY"

Ely A. R. Ouano, Ph. D.

Discussants:

*Veronica Villavicencio
Edwin Lee, M. D.
Benedicto L. Adan*

MEDICINE

Chairman: *Geminiano T. de Ocampo, Academician
National Scientist*

4:30 "THE ANTIBIOTIC AND ANTITUMOR
ACTIVITIES OF SELECTED PHILIPPINE THALLOPHYTES"

Patrocinio S. Santos, Ph. D.

Discussant:

Flordeliz Uyenso, Ph. D.

Lydia M. Joson, Ph.D.

Rogelio P. de Leon, M.D.

5:00 "LINKING HOSPITALS WITH THE
COMMUNITY AND MEDICAL
REORIENTATION RELEVANT
TO PRIMARY HEALTH CARE
IN THE PHILIPPINES"

*Fe del Mundo, Academician
National Scientist*

Discussants:

Amanda V. Velenzuela, M.D.

Thelma N. Clemente, M.D.

Nelly Villina, M.D.

CHEMISTRY

Chairman: Clara Y. Lim-Sylianco, Academician

5:00 "DECARBOXYLATION OF THE
FATTY ACIDS OF COCONUT OIL."

Julian A. Banzon, Academician

Discussants:

Florencio Medina, D. Sc. (honoris causa)

Augusto Santos-Ocampo, Ph. D.

SCIENTIFIC SESSION (B)

Meeting Room 4

BIOLOGICAL SCIENCES

Chairman: Clare R. Baltazar, Academician

1:30 "THE RESPONSE OF RICE TO LIGHT"

Jose R. Velasco, Ph. D.

Discussants:

Benito S. Vergara, Ph. D.

Reynaldo A. Tabbada, Ph. D.

Geminiano T. de Ocampo, M.D.

2:00 "THE QUEST FOR THE CONTROL
OF PHILIPPINE CORN DOWNY MILDEW"

Ofelio R. Exconde, Ph. D.

Discussants:

Manuel M. Lantin, Ph. D.

Fernando F. Sanchez, Ph. D.

2:30 "ACCIDENTAL HUMAN
PHILOPTHALMIASIS IN THE PHILIPPINES"

Carmen C. Velasquez, Academician

Discussants:

Geminiano T. de Ocampo, Academician
Edito Garcia, M.D.

1:00..... "PRESTICIDE-INDUCED
CHROMOSOMAL ABERRATIONS
AND INHERITANCE OF VIABLE
SEEDLING MUTATIONS IN
SROGHUM"

Joventino D. Soriano, Academician

Discussants:

Adoracion T. Aranez, Ph. D.
M.S. Swaminathan, Ph. D.
Florencio-Isagani Medina III, Ph. D.

3:30..... B R E A K

4:00..... "INDUCED ANDROGENIC SEX
REVERSAL AS A POPULATION
CONTROL METHOD FOR
TILAPIAS"

Rafael Guarrero III, Ph. D.

Discussants:

Jose Carreon, Ph. D.
Ernesto A. Rigor, Ph. D.
Harminio Rapanal, Ph. D.

4:30..... "TAXONOMIC VALUE OF
TEGUMENTAL STRUCTURES IN THE
IDENTIFICATION OF SOME
SPECIES OF THE FAMILY
PARAMPHISTOMIDAE FISCHOEDEI
1901 OCCURRING IN MAMMALS"

Salcedo L. Eduardo, Ph. D.

Discussants:

Carmen C. Velasquez, Academician
Nonette L. Jueco, M.S.

5:00..... "INTRASPECIFIC HYBRIDIZATION
IN VOLVARIELLA VOLVACEAE BY
PROTOPLAST FUSION
TECHNIQUE"

Claro M. Santiago, Ph. D.

5:30..... "NEW TECHNIQUE FOR GENETIC
MANIPULATION OF INDUSTRIAL
MICROORGANISMS"

John P. Paberdy, Ph. D.
University of Nottingham, England

cotton breeding program.

And because of his untiring efforts, the Philippine Cotton Corporation (PCC) sent him to the Texas A&M University College Station, Texas, USA for post doctoral training. Coming back home, he was asked to take some time out of his work at UPLB to serve as Assistant to the President for Research and later Vice-President for Research of PCC. His involvement with the Corporation led to his awareness of the problems besetting the cotton industry which he traced down to be a result of the inadequacy of research output in support of the National Cotton Development Program. Dr. Cabangbang, thus, proposed for the establishment of a strong specialized organization with full time highly competent teams of researchers and development technologists amply supported with facilities, equipment, funds and personnel, to fully respond to the needs of the cotton growing industry. And June 16, 1978 saw the birth of the Cotton Research and Development Institute with him as its Executive Director.

A recipient of several academic honors and awards, perhaps the most noteworthy of which is his becoming a TOYM Awardee for 1980 in the field of Agriculture – Cotton Research and Development. He has to his name 30 scientific and technological researchers not to mention other papers and important lectures he has presented.

VIRGILIO G. ENRIQUEZ

Virgilio G. Enriquez, a Ph. D. in Psychology, is concerned foremost mainly with Filipino psychology and psychology of language. His researches, which are reflected in about 3 books, 38 journal articles papers and show the relevance of such studies to the society.

Through critical examination of Western colonial theories and concepts in relation to Filipino behavior and personality, he has come up with indigenous theoretical models and methods of research which are applicable to the Philippine situation, and in keeping with Filipino ways of doing things, even in accordance with the people's traditions and aspirations.

ALEJANDRO N. HERRIN

Alejandro N. Herrin obtained his Ph. D. in Economics from the University of South Carolina, USA in 1972. From being an instructor at the Xavier University, Cagayan de Oro in 1966, he has now become the Director for Finance, School of Economics, UP, Diliman.

With research interests encompassing the fields of economics, human resource economics, rural development and demographic statistics, he has to his name about 65 published and unpublished works/researches, a number of which are funded by international bodies.

JOSE A. MARASIGAN

Dr. Jose A Marasigan, a Ph. D. in the field of Mathematics, has for his research interests Geometry and Algebra. His main contribution to society is that of training young mathematicians, in particular, the B.S. Mathematics students of the Ateneo de Manila as well as students on the Masters level under the FAPE - sponsored M.S. program at the Ateneo de Manila. One of his more important undertakings is his teaching of basic courses and assist in the preparation of theses of the Ph. D. Program in Mathematics of the UP-Ateneo-De la Salle consortium. This program was initiated by the NSDB (now NSTA) – ed.

A member of the Mathematics Society of the Philippines, he has

represented the Society in many conferences and meetings both of regional and international mathematics organizations, like, the Southeast Asian Mathematical Society (SEAMS), the International Mathematical Union (IMU) and the International Commission on Mathematics Instruction (ICMI).

WILLIAM G. PADOLINA

Dr. William G. Padolina obtained his Doctor of Philosophy degree from the University of Texas at Austin, USA in 1973. His achievements have direct importance a) the national efforts to establish a medicinal plants industry with end-in-view of improving the country's health care delivery system; b) revitalization of the coconut industry by way of product diversification; c) application of chemical screening methods in plant breeding and d) biogas production from crop residues.

He was appointed PCRDF professorial chairholder since 1968 and member of the PCARR national coconut commodity team since 1975 in recognition of his expertise in the industrial uses of the coconut. Also, it was through his initiative that the Technical Data Handbook for Coconut and its By-products was prepared. This was released for distribution last year. His work on flavonoids as genetic markers for plant breeding work, on the other hand, shows that the screening time involved in selecting superior varieties could be considerably reduced. His other works like the one on the isolation and identification of natural insecticide from plants which led to the discovery of *Ageratum* and the dealing with crop residues of biogas generation are proofs of his vision of harnessing chemistry to maximize the benefits of

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B.D. Cabrera

Dr. Cabrera is professor of Parasitology and dean of the Institute of Public Health, U.P. A doctor of medicine, he finished from UP in 1945 and his M.P.H. (T.M.) from Tulane U in New Orleans, U.S.A. His postdoctoral studies include Johns Hopkins University and University of Maryland in U.S.A.

Behind him is an intensive professional experience including administrative and consultative ones. He started out as a parasitologist in a medical laboratory to head the UP Pest Control and other services and many others. This includes guest lecturer of the DAP and E. course at the Institute of Medical Research



Dr. Cabrera

in Kuala Lumpur in Malaysia from 1968 up to the present.

To his name are 15 honors, awards and recognitions; 10 research contest awards; seven books/manuals and 122 scientific papers and two popular articles. He has attended numerous international conferences.

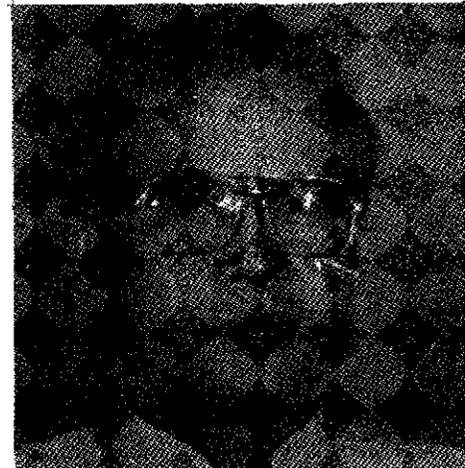
He hails from Tarlac, Tarlac and was born on March 18, 1920.

E. O Javier

Emil Q. Javier is the Director General of the National Science and Technology Authority and Chancellor of the UPLB.

A holder of Ph. D. in plant breeding and genetics from Cornell University in 1969; he obtained his M. S. (Agronomy) from the University of Illinois while his B.S. in Agriculture, UP College of Agriculture.

Aside from his present positions, plus a dozen other tasks that go with them, he is regent of the UPS and director, National Institute of Biotechnology and Applied Microbiology. He is also chairman of the governing councils of the PCARRD, and the newly-created PCHRD and PCIIRD. And that of the executive board of the Center for Policy and Development Studies and a score of others.



Dr. Javier

He had a short stint as research assistant both at UPCA and University of Illinois and graduate assistant at Cornell U. In 1966, he went back to the Academic halls as instructor in 1966 and in 1976 as a professor up to now.

Productive and energetic as he is now, in the past he came up with 48 research works and still working on some more. Realizing the importance of reaching the laymen, he produced and wrote no less than 15 popular articles. Well-travelled he did attend about 36 international conferences and symposia and congresses.

These days, he has a lot in his mind. He is actually transforming the world of scientific and technological clusters into a coordinated national group, integrating their efforts nationally with the aid of the line agencies and the councils.

His purpose: To bring their efforts, their works and output towards a common goal and within the national development plan.

When he came to the NSDB, he tackled the big job ahead in one big step: by creating the NSDB Task Force in August, 1981. Seven months later, President Marcos signed Executive Order 784, creating the National Science and Technology Authority, replacing the NSDB. (D.S.A)

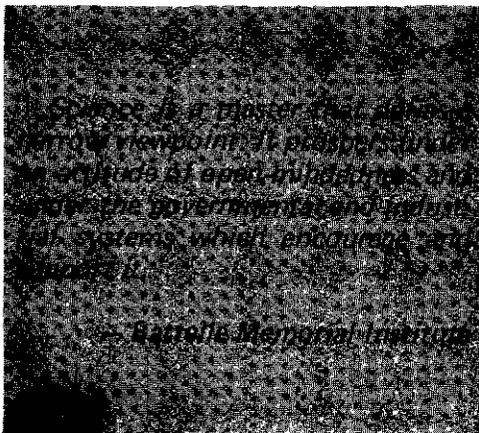
HOLD 4th ANNUAL . . .

(From page 1)

Decree establishing the National Academy of Science and Technology.

"The idea of an academy of scientists have long been nurtured by our scientists and a few concerned statesmen . . ." and adding, emphatically that.

"In this direction, our Academy has quietly addressed itself. It initiated and has since then undertaken a series of roundtable conferences on specific scientific problems which have bearing on national issues"

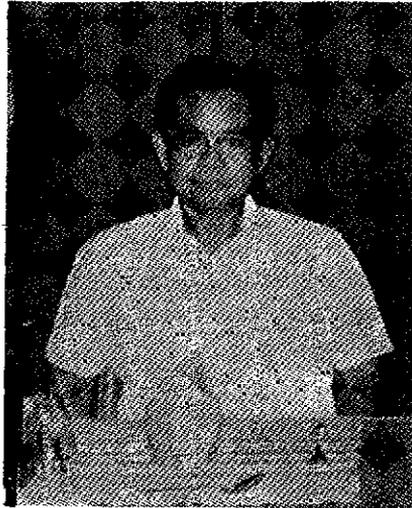


Academician Attends International Symposium in Saudi Arabia

Dr. Joventino D. Soriano was invited to participate in the International Symposium on Application and Technology of Ionizing Radiations held at King Saud University (formerly University of Riyadh) on March 10-17, 1982. At this symposium, he presented a paper on the genetic effects of radiation. "It was held primarily to assess the 'state of the art' on the peaceful applications and technologies of radiation immediately beneficial to developing nations" he said, reporting on his travel and added that—

"The medical applications of radiation gained principal attention through numerous papers on diagnostic radiology, radiation therapy and nuclear medicine. The participants visited the King Faisal Specialist Hospital in Riyadh where the world's second clinical cyclotron is found for largescale production of radioisotopes for medical purposes.

Some life-saving radioisotopes have a half-life of only a few minutes and have to be produced right in the Hospital. According to Dr. Soriano this cyclotron and its supporting facilities costing over two billion U.S. dollars, is operated and maintained by about a dozen American nuclear engineers and medical doctors specializing in nuclear medicine. The Small Animal Diagnostic Laboratory adjacent to the cyclotron room supervised by a Filipina woman doctor.



"A low-level nuclear technology which could be of great economic benefit to developing nations is the preservation of food by gamma irradiation considering that 30-70 per cent of the world's harvest of crops, meat and fish each year go to waste through insect and microbial infestation. The statement 'There need not be hunger in this world with ionizing tradition' will no longer be just a slogan after the poor nations of the world have decided to participate in the U.N. program of food preservation through irradiation. During the discussions, the symposium participants agreed that radiation doses for preserving food should not exceed one millirad or 100 kilorads (Krad) for the safety of consumers.

"Another low-level nuclear technology now available to developing nations is the largescale sterilization of hospital and pharmaceutical instruments, gadgets and plastic wares through irradiation.

Many developing nations have the capability and know-how for this technology."

On this travel impressions, Dr. Soriano reports further that "Saudi Arabia is a country full of surprises for shortterm visitors. At the rate the building and other infrastructure constructions are going on, Riyadh — the capital city, will probably be mistaken for New York at the turn of the century. A gallon (about 3 liters) of gasoline cost one riyal (equivalent to ₱2.50) and with the same amount, one can tour the city in government-run buses. Women and children get free rides. Jewellers will find Saudi Arabia a veritable gold mine as laces, rings and other ornaments of pure gold in the public markets cost only about half as much as those anywhere in the world. To buyers who cannot distinguish between brass and gold, each purchase is guaranteed by the Arabs' tradition of honesty and a sales invoice signed by the salesman who has beside him a glass-encased balance and a calculator for the buyers' satisfaction."

"In more ways than one, visitors to Saudi Arabia will find a world of contrast to the customs and traditions existing in the rest of the world. Arab women are hardly seen in public and if she must leave her household chores, she covers herself with black clothing and does not travel alone. Public display of
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OUTSTANDING YOUNG SCIENTISTS. . . . (from page 9)

agricultural production.

PERCY E. SAJISE

Dr. Percy E. Sajise, foremost ecologist in the Philippines and one of the very few in Asia recognized in scientific circles the world over, has every right to be called such. He has pioneered work on grassland ecology; his findings serving as basis for the management and rehabilitation of vast cogonal lands resulting from deforestation. He initiated, together with 21 colleagues at the UPLB, the formation of the Upland Hydroecology Program. This is an interdisciplinary and intergrative research and demonstration program on shifting agriculture and reforestation strategies for upland development; the

results of which are currently being used as models by the Bureau of Forest Development (BFH) and the Ministry of Natural Resources (MNR).

He is member several learned and civic organizations, three of which are the : Crop Science Society of America, Ecology Foundation of the Philippines, Inc. and the Honor Society of Phi Kappa Phi. He is also a recipient of the Rizal Pro of his valuable contributions to agriculture science and resource management especially in the critical area of upland regeneration.

BENITO L. TANHEHCO

Dr. Benito L. Tanhehco is the Asst. Administrator for Engineering Services and

Technical Consultant of the Philippine Heart Center for Asia at present.

A Ph. D. in Biomedical Engineering, he has initiated studies and researchers on several electronic and bio-medical devices such as the external demand pacemaker and the dynamic bicycle ergometer. He modified the cardiac monitoring device to come up with a "non fade memory" cardiac monitor. This made it very practicable and cheap, even cutting the price at 1/3 of the imported brand. Clinically tested and proven accurate, this is suitable to local needs of medical care.

These days, he is involved in various other studies of medical equipment associated with computer systems. (M.V.S.)

DR. SORIANO (from page 11)

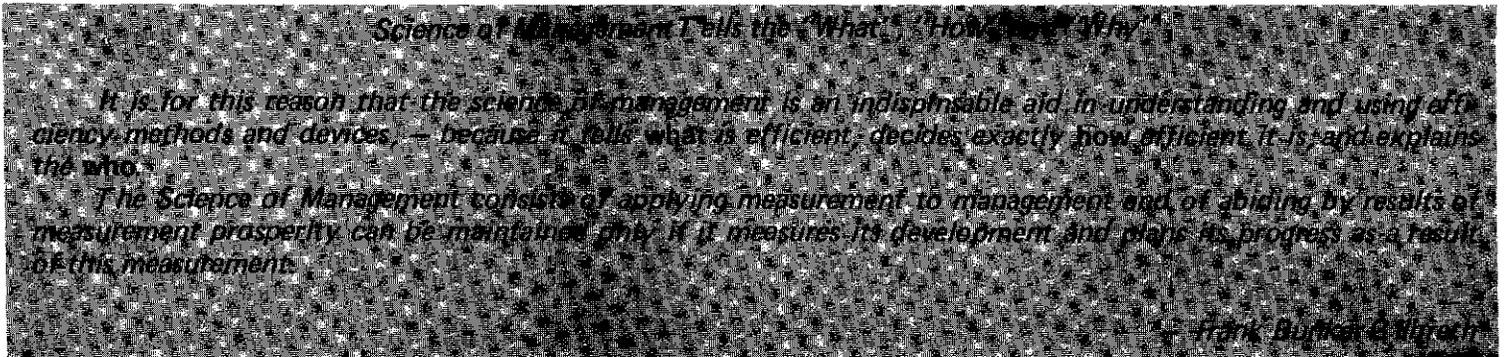
affection like holding hands on walking side by side in public places which are common in other parts of the world are taboo in that place.

"The all-male staff in offices, all-male service in hotels and restaurants, all-male salesman in shops and supermarkets and all-male teachers and professors in school and colleges give the visitors an opportunity to evaluate the equal-opportunity of the sexes policies' in other parts of the world. One thing that will likely catch the eye of the

visitor is the orderly and quiet atmosphere in offices, shops and restaurants with only male clients and male services. Thus, the office telephones are hardly used on pleasantly used only for a few minutes for each call. In a recent survey of college students in Riyadh, more than 70% of them opted to become college professors, probably an indication of the high esteem the Arab youth has for his male professors."

"A Filifini (the Arabic for Fi-

lipino) visitor will not feel onely it that rich country because one out of every ten people he meets in the streets is a 'kababayan' who, probably out of homesickness, never fails to smile and tells you in Tagalog before you can greet him back that he is coming home soon, after next. This shows that although the Pinoy is more than 5,000 away from his homeland, his thoughts are always of home."



ACADEMY NEWS

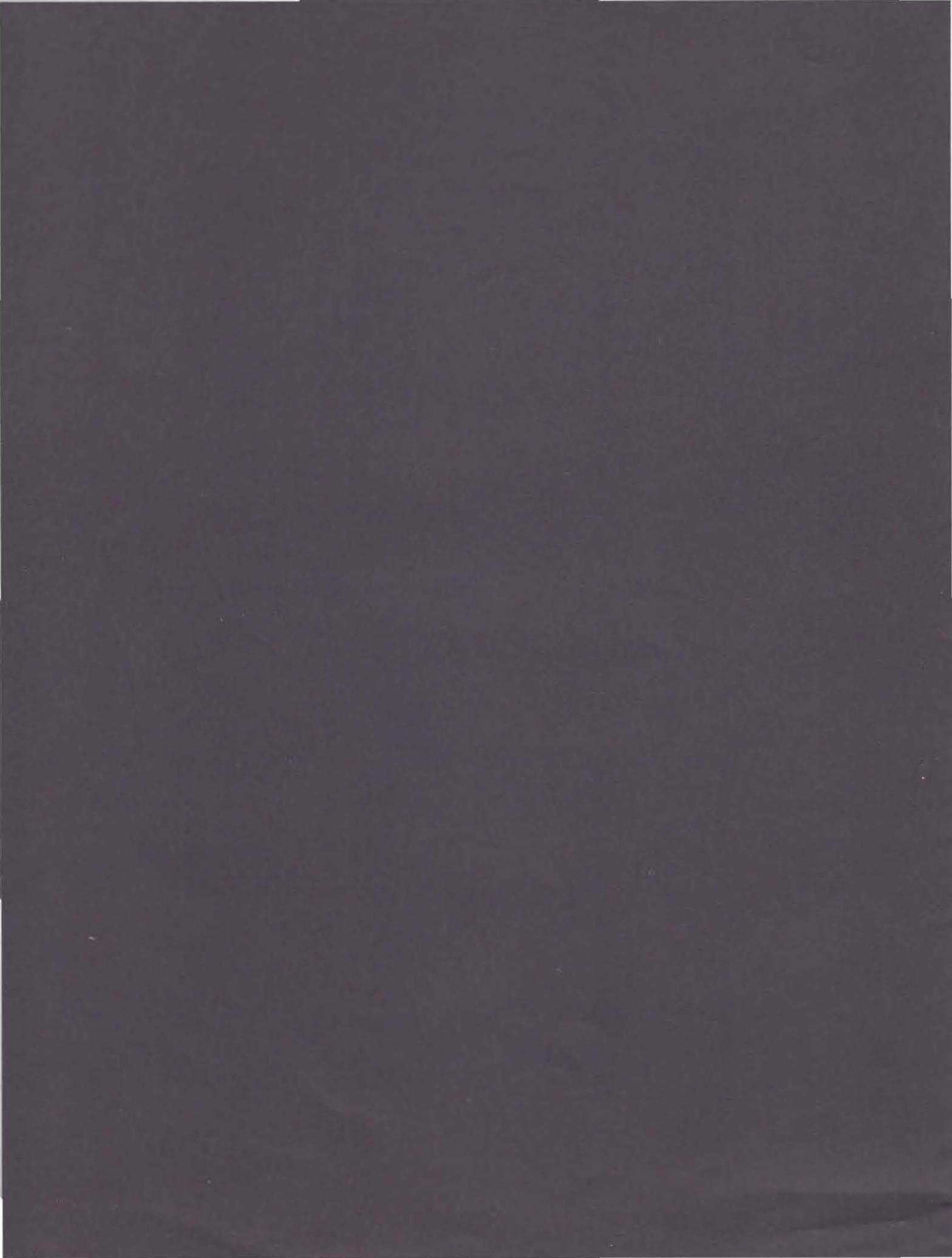
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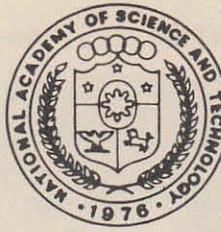
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Three New National Scientists Named

Hold 4th Annual Scientific Meet

Everything is set for the 4th Annual Scientific Meeting of the Academy at the PICC on July 14. This date falls during the observance of the National Science and Technology Week (July 11-17), following the Presidential Proclamation to this effect.

The scientific sessions will be held in the afternoon, right after the investiture and lunch in honor of the National Scientists. The session will be held simultaneously with social sciences, engineering, medicine and chemistry sessions at Meeting Room 5, while over at Meeting Room 4, they will take on the biological sciences.

(Please turn to middle fold for the complete program - Ed).

The Academy started holding this scientific meeting way back in May, 1976. Papers were presented for two days at the Asian Institute of Tourism in Diliman, Q. C. In the words of Dr. Paulo C. Campos, President of the NAST, and we quote a portion of his welcome address:

"Today our infant Academy holds its first annual meeting. Its creation is a milestone in the history of science in this country and for that we have to thank our distinguished guest this afternoon, who, as chairman of the NSDB, labored hard for the Presidential
(To page 10)

The rank and title of National Scientists was conferred on three Academicians. They are: Geminiano T. de Ocampo, M.D., the science and practice of ophthalmology; Casimiro del Rosario, Ph.D., physics and meteorology and Gregorio Velasquez, Ph.D. tropical phycology (algae). Their outstanding contributions to their respective fields were recognized by their peers with their election to the Academy. And more recently, their being named National Scientist.

The recent announcement from Malacanang brought the number of national scientists to eight. In July, 1978 during the celebration of the National Science and Technology Week, three were named national scientist. They were : Dr. Juan Salcedo, medicine and public health; Dr. Gregorio Zara for engineering and Dr. Alfredo C. Santos, chemistry. Again, in July 1980, proclaimed were : Dr. Fe del Mundo, pediatrics and Dr. Eduardo Quisumbing, botany.

The Academy annually recommends for Presidential Award not more than ten scientists for distinguished individual or collaborative achievement in the sciences. They shall be accorded by the President the rank and title of national scientists. However, the Academy is given the option to recommend to no one the award for any given year.

The proclaimed national scientists are given each a gratuity in amounts fixed by the Academy. They are likewise entitled to other privileges as are enjoyed by the National Artists.

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Investiture of New Academicians Takes Place July 14

Two scientists will officially join the roster of Academicians after their formal investiture in the morning of July 14 at the PICC. They are: Benjamin D. Cabrera, M.D., parasitology/public health and Emil Q. Javier, Ph. D., plant breeding and genetics.

The new members were elected during the Academy's second regular

meeting last April 24th at the P.J. Garcia Memorial Hall. The election was held after nominations were made following a series of various individual committee meetings.

This brings the number of Academicians to 31. The decree creating the Academy provides for only 50 members at any one time.

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