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ACADEMY NEWS

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NATIONAL ACADEMY OF SCIENCE AND TECHNOLOGY
National Science and Technology Authority

National Scientists:

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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.

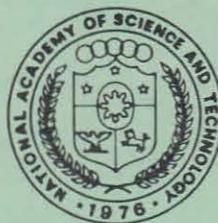
Executive Council

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Carmen C. Velasquez, Ph.D.	—	Member

Academicians:

Teodoro A. Agoncillo, Litt. D. (*honoris causa*)
Encarnacion Alzona, Ph.D.
Clare R. Baltazar, Ph.D.
Julian Banzon, Ph.D.
Luz O. Belardo, Ph.D.
Benjamin D. Cabrera, M.D.
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Magdalena C. Cantoria, Ph.D.
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Pedro B. Escuro, Ph.D.
Raymundo A. Favila, Ph.D.
Francisco M. Fronda, Ph.D.
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Bienvenido O. Juliano, Ph.D.
Alfredo V. Lagmay, Ph.D.
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Melecio S. Magno, Ph.D.
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Dioscoro L. Umali, Ph.D.
Carmen C. Velasquez, Ph.D.
Gregorio T. Velasquez, Ph.D.
Gregorio Y. Zara*, Ph.D.

* deceased



NAST PICKS OUT

'82 Outstanding Young Scientists



The Outstanding Young Scientist Awards for 1982 was carried on under the auspices of the National Academy of Science and Technology. The selection sent by actual vote coming from the officers and members of the Academy, the following made it to this year's reputable award.

They are, from left: Carmelo A. Alfiler, M.D., Pediatric Medicine; Rodolfo P. Cabangbang, Ph.D., Plant Breeding; Virgilio G. Enriquez, Ph.D., Sikolohiyang Pilipino; NSTA Director General Emil Q. Javier, Academician; President Marcos; Jose A. Marasigan, Ph.D., Mathematics; William G. Padolina, Ph.D., Phyto-chemistry; Percy E. Sajise, Ph.D., Ecology; Benito L. Tanheco, Ph.D., Biomedical Engineering; and Alejandro N. Herrin, Ph.D., Demographic Economics.

Rules for '83 Awardees Out

The glow of the '82 Awardees was still warm and a new set of guidelines for the 1983 outstanding young scientists is already out.

Awards shall be given to young scientists who have made significant contributions in science and technology, most specially in the fields of medicine, social sciences, (To page 14)

Bacnotan, La Union

National Scientist Gives Inspirational Talk to Science Club Members

Dedication and patience—in the words of Dr. Gregorio Velasquez, national scientist—should be the foremost virtues a scientist should possess to be a successful one.

These words were reflected in the inspirational talk he gave before science-inclined youth.

Occasion: The 1982 National Science Club Month activities. It was held at the Ortega Memorial Hall at the Don Mariano Marcos State University in La Union, September 4th.

The Science Club Month is held every September of every year. It brings together science club members from schools all over the country. This year for example, they aim to make members participate actively in the national government's thrust for better livelihood of the country in the future.

Like what we stated in the last issue of the Academy News Dr. Velasquez's knowledge and dedicated service in many ways brought growth and development in the country's biological research. Not only that, many Filipino Ph.D.'s who had been under him said they were drawn to his extensive research studies. Foremost, his work on Algology and Phycology.

Before he was elected Academician and most recently his being proclaimed national scientist we can readily read the kind of professionalism he imparted—whether he was in the classroom, the laboratories and they can be gleaned from his published works and we can read it even from among his peers. Among them the Plaque of Merit from the NRCP in 1977 "for his unselfish and dedicated service to the growth and development in the country, 1966 to 1973.



▲ Dr. Gregorio Velasquez, national scientist, had at one point, served as first president of the Philippine Science High School. He was invited by organizers of the National Science Club Month, observance of which was led by the Science Promotion Institute



◀ Photo at left shows him as he enthusiastically hands over his talks before members of the Philippine Society of Youth Science Clubs and the Science Club Advisers Association of the Philippines.

EO 818 Amends PD Creating the NAST

(Editor's Note — The formal establishment of the NAST last July, 1978 following the signing of PD 1003-A has developed a whale of a yam. While its creation also gives testimony to the continuing concern of the government to promote a wider appreciation in science and among the general public. This likewise indicates the opportunities offered to S & T manpower — which well affect all aspects of work from cultural and education, recreational and to the environmental and daily life.

Among others, the Academy seeks to provide a reservoir of competent scientific and technological manpower for the country. Its affairs are

administered by an Executive Council of seven members, named by the President from among at least 10 members nominated by the Academy. It has 31 members at present, although said PD provides for 50 members at any one time.

However, the Academy, in order to function more efficiently and give them more mobility both in administration and operations, sought some revisions in said PD. This initial effort is reflected in the recently signed Executive Order 818, amending PD-1003-A, creating the NAST and for related purposes).

The full text:

**Malacanang
Manila**

**By the President of the Philippines
Executive Order No. 818**

Amending Presidential Decree No. 1003-A, creating the National Academy of Science and Technology and for related purposes

WHEREAS, it is desirable to make more efficient the administrative functions and operations of the National Academy of Science and Technology;

WHEREAS, it is necessary for the Academy to embark on programs traditionally and internationally expected of a national academy of science;

WHEREAS, the Constitutional mandate that the "State shall promote scientific research and inventions" and that "the advancement of science shall have priority in the national development", requires that the Academy be made explicitly closer as advisers on science and technology to the President and his ministers;

WHEREAS, under Presidential Decree No. 1416, as amended, the President is empowered to undertake such organizational and related improvements as may be appropriate in the light of changing circumstances and new developments;

NOW, THEREFORE, I, FERDINAND E. MARCOS, President of the Philippines, by virtue of the powers vested in me by

the Constitution and the authority vested in me by Presidential Decree No. 1416 as amended, do hereby order and direct:

SECTION 1. Section 1 of Presidential Decree 1003-A is hereby amended to read as follows"

"SECTION 1. There is hereby created the National Academy of Science and Technology, hereinafter referred to as the Academy, which shall be composed of outstanding scientists to serve as a reservoir of competent scientific and technological manpower for the country, The Academy shall be attached to the National Science and Technology Authority (NSTA) for general coordination. The Academy shall have its own Secretariat/Administrative Staff."

SEC. 2. The second paragraph of Section 9 of the same Decree is hereby amended to read as follows:

"Initially, each member of the Academy shall receive a gratuity of Six Thousand Pesos (P6,000,00) per annum. The Academy may determine stipends, incentives and/or recommend adjustment of gratuity to/or of its member subject to the approval of the National Science and Technology Authority,"

SEC. 3. The Academy may engage in projects or programs designed to recognize outstanding achievements in science to promote scientific productivity.

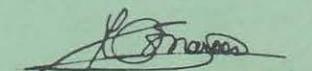
SEC 4. To carry out the purposes of this Executive Order, the Office of Budget and Management is hereby authorized to provide such amounts as may be necessary from available or applicable funds of the government.

SEC. 5. All other provisions of Presidential Decree No. 1003-A not otherwise affected by this Executive Order shall remain in force and all laws, decrees, orders, proclamation, rules, regulations, or parts thereof, which are inconsistent with any of the provisions of this Executive Order are hereby repealed or amended accordingly.

SEC. 6. Any portion or provision of this Executive Order that may be declared unconstitutional shall not have the effect of nullifying the other provisions thereof, provided that such remaining portions can still stand and be given effect in their entirety to accomplish the objectives of this Executive Order.

SEC. 7. This Executive Order shall take effect immediately.

DONE in the City of Manila, this 16th day of July in the year of our Lord, nineteen hundred and eighty-two.


FERDINAND E. MARCOS
President of the Philippines

By the President

(Sgd.) JUAN C. TUVERA
Presidential Executive Assistant

Thai's Kasetsart U Confers Honorary D.Sc. Degree to Dr. F. Fronda

ACADEMICIAN RECEIVES AWARD FROM CROWN PRINCESS OF THAILAND

New Zealand is Seat of 15th Pacific Congress

The 15th Pacific Congress is lined-up to for Dunedin at the University of Otago from February 1-11, 1983. The motif is Conservation, Development and Utilization of the Resources of the Pacific.

Actually the theme will be conveyed in four interdisciplinary symposia, namely: energy in agriculture; high latitude resources; their assessment and development; resources, science and the laws of the sea and Pacific Island potentials.

To date, a substantial number of other scientific societies have already indicated their intention either to hold or sponsor meetings in Dunedin as part of the Congress. Arrangements on pre-and post-congress tours will be provided.

The Pacific Science Association have listed the sections to be included. These are: ecology, conservation and environmental protection; solid earth sciences; geography; museums in Pacific research; marine sciences; coral reefs; botany; forestry; freshwater sciences; entomology; social sciences; and humanities; public health and medical sciences; nutrition and science education and communication.

Dr. Francisco Fronda, Academician, was conferred on honorary Doctorate of Science degree (Agriculture) by the Kasetsart University in Bangkok, Thailand, recently.

Dr. Fronda received the Award from Her Royal Highness, the Crown Princess of Thailand. The gesture was in lieu of His Majesty, the King who was sick at the time.

The setting: The 1982 Annual Commencement Exercise of Kasetsart U at the Amphorn Garden Auditorium last July 29.

In his letter dated July 12th to Dr. Fronda, the University Rector, Chongrak Prichananda, stated—

"... on behalf of the Kasetsart University Council, the Council has approved the recommendation submitted by the Faculty of Agriculture conferring an honorary Doctor of Science degree (agriculture) to Francisco M. Fronda.

"The Council recognizes your outstanding contributions in the field of your expertise plus a good number of works accomplished through your initiation and able guidance of several organizations dealing with research, instruction and extension responsibilities. Your esteemed advice and assistance to the Kasetsart University program are also remembered with gratification."

An expert in Animal Husbandry, he rose from the ranks at the College of Agriculture, UP at Los Baños. Starting out as instructor of Poultry Husbandry to assistant then associate professor then to professor and research professor and much later, as Emeritus Professor.

He was head of the Department of Animal Husbandry at the College of Agriculture from November 1, 1955 to June 30, 1957. Simultaneously serving as research coordinator of the Central Experiment Station of the College of Agriculture.

He has behind him some published works/researches numbering to almost 700.

It will be recalled that among the awards and distinctions he received during his younger years, was a bronze plaque awarded by the UP College of Agriculture Alumni Association, Inc. in October, 1966. The text of the award goes this way—

"... for outstanding performance as a gentleman, educator, agricultural scientist, family man and poultry husbandman, with particular emphasis on his significant contributions to the poultry industry of the Philippines and Thailand."

Industrial Pollution & Control Conference

The First International Conference on Industrial Pollution and Control will be held 14-17 December, 1982 at Hotel Equatorial in Singapore.

The Conference aims to bring together environmental specialists to discuss and examine environmental problems encountered as a result of industrial development.

The papers to be presented at this three-day conference will include: air pollution and control; water and pollution; noise pollution; industrial health; industrial waste and treatment system; solid wastes and residues; and domestic sewage and sewerage.

These will reflect the views of

industry, government, water authorities and utilities, universities, national and international centers and agencies concerned with the industrial environment.

Conference secretariat is ECOM, suite 815 World Trade Center, 1 Maritime Square, Singapore 0409.



The Academicians at the ceremonious investiture of New Academicians at the PICC during the National Science and Technology Week.

Above: From left to right are: Magdalena C. Cantoria, Ph. D.; Melecio S. Magno, Ph. D.; Raymundo A. Favila, Ph. D.; and Bienvenido O Juliano, Ph. D.

Below: From right to left: Francisco O. Santos, Ph. D.; Dioscoro L. Umali, Ph.D.;

Joventino D. Soriano, Ph.D.; Julian Banzon, Ph.D., and Alfredo V. Lagmay, Ph.D., both partly hidden; Carmen C. Velasquez, Ph.D.; National Scientists. Geminiano T. de Ocampo, M.D.; Gregorio T. Velasquez, Ph.D.; Alfredo C. Santos, Dr. phil.; Fe del Mundo, M.D.; and Eduardo Quisumbing, Ph.D., and NAST head Paulo C. Campos, M.D.





The members of the National Academy of Science and Technology. Here, as they pose for a group picture after this year's Investiture of New Academicians at the PICC.

Seated from left to right: Tito A. Mijares, Ph. D.; Eduardo Quisumbing, Ph. D., National Scientist; Fe del Mundo, National Scientist; Geminiano T. de Ocampo, M.D., National Scientist; Paulo C. Campos, M.D., Academy President, Emil Q. Javier, Ph. D.; Alfredo V. Lagmay, Ph. D.; Carmen C. Velasquez, Ph. D.; Alfredo C. Santos, Dr. phil., National Scientist, and Gregorio T. Velasquez, National Scientist.

Standing, from left: Raymundo A. Favila, Ph. D.; Melecio S. Magno, Ph. D.; Clare Baltazar, Ph. D.; Magdalena C. Cantoria, Ph. D.; Benjamin D. Cabrera, M.D.;

ACADEMICIANS

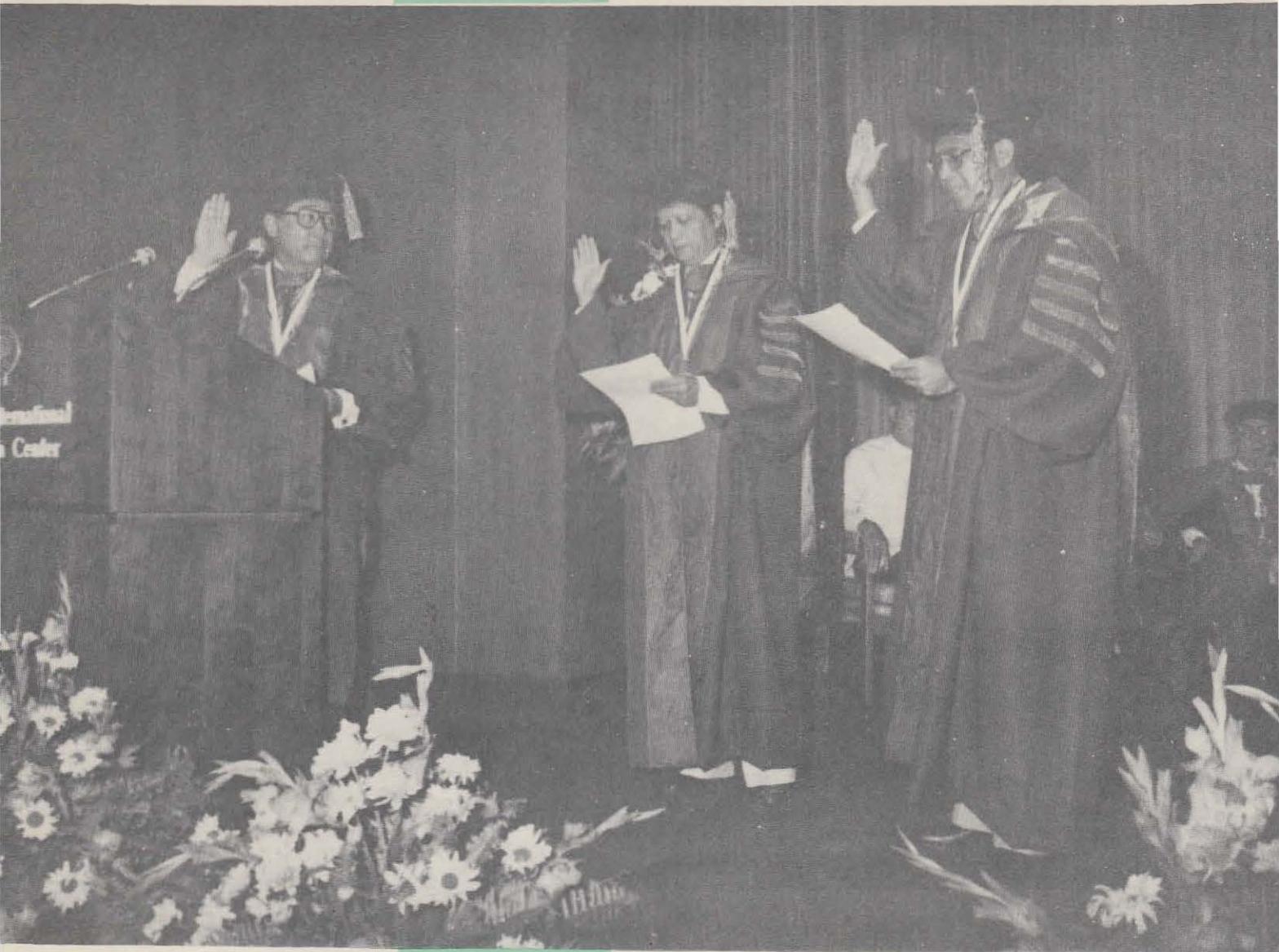
14 JULY 1988
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Encarnacion Alzona, Ph. D.; Julian Banzon, Ph. D.; Joventino D. Soriano, Ph. D.; Dioscoro L. Umali, Ph. D.; Francisco O. Santos, Ph. D. and Bienvenido O. Juliano, Ph. D.

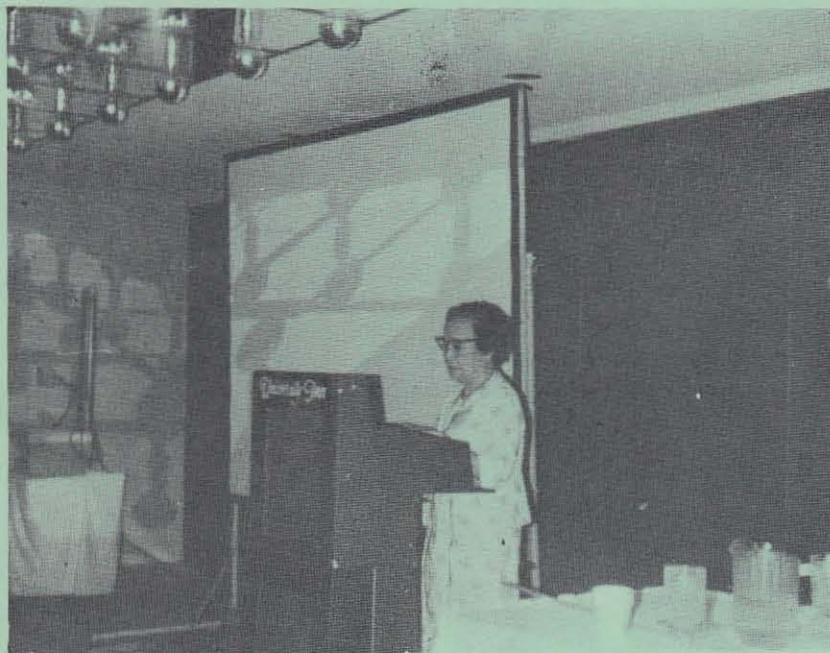
Not in photo are: Teodoro A. Agoncillo, Litt. D. (honoris causa); Luz Oliveros-Belardo, Ph. D.; Amando M. Dalisay, Ph. D.; Conrado S. Dayrit, M.D.; Jose Encarnacion, Jr., Ph.D.; Pedro B. Escuro, Ph.D.; Francisco M. Fronda, Ph.D.; Juan S. Salcedo, Jr., M.D. National Scientist and Clara Y. Lim-Sylianco, Ph.D.

Deceased members are: Emerita V. de Guzman, Ph.D.; Cecilio F. Lopez, Dr. phil.; Jose N. Rodriguez, M.D.; Casimiro del Rosario, Ph.D.; and Gregorio Y. Zara, D. Sc.



The formal bestowal of the New Academicians. Here, Dr. Benjamin Cabrera and Dr. Emil Q. Javier as they take their oath before NAST President, Dr. Paulo C. Campos at the rostrum.

Seek Collaboration of Foreign Institutions on Local National Product Research



A Chemical Study of the Essential Oil from the Fruit Peelings of *Psidium Guajava* L., Philippine Variety was read at the University Inn of the University of Pittsburgh in Pennsylvania last August 1-6, 1982.

And most immediately, many foreigners have indicated their interest in doing chemical study of Philippine plants.

That week-long gathering of scientists was the 23rd Annual Meeting of the American Society of Pharmacognosy where our Academician, Luz Oliveros-Belardo presented the above-titled paper.

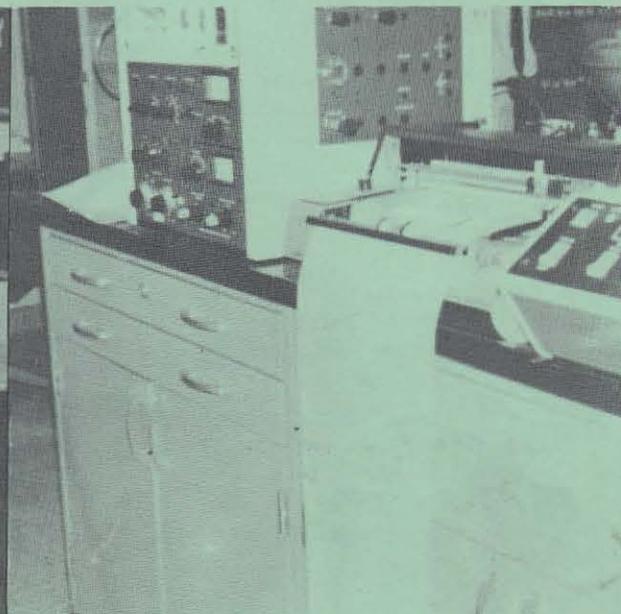
(Con'td. on page 14)

Dr. Luz Oliveros-Belardo, Academician, reads her paper on Essential Oil at the Scientific Session of the 23rd Annual Meeting of the American Society of Pharmacognosy, University of Pittsburgh in Pennsylvania, U.S.A. from August 1-6.

Below, the Academician with Dr. Brian M. Lawrence, Ph.D. as they discuss experimental results obtained from a study of a Philippine essential

oil. Dr. Lawrence is director of R & D, Avoca Division of R. J. Reynolds Technical Company, Winston-Salem, North Carolina, U.S.A.

Below right, the research laboratory of Dr. Lawrence where our Academician observed a sample of a Philippine essential oil undergo a computerized gas chromatographic analysis.



a non-governmental regional scientific body
**Asean Scientists Meet at KL, AASSEAN Formed
Manila Eyed as Seat of Next Year's Meet**

The Philippines was represented by NAST Executive Council officials and members at the preparatory meeting of senior scientists in ASEAN region early this year in Kuala Lumpur, Malaysia. They were: Dr. Paulo C. Campos, Dr. Alfredo C. Santos, national scientist and Dr. Carmen Velasquez. Meanwhile, Manila is being eyed to be the next seat of this ASEAN body by early next year.

That body on consensus voted to explore the need for a non-governmental regional scientific body with a high status for the purpose of promoting the advancement of science and its application in the ASEAN region.

Initially, to give more meaning and weight to this concept, a pro-tem body was formed, composed of: Dr. M. K. Rajakumar, convenor; Dr. Campos and one representative from the Philippines; Tan Sir Dr. B.C. Sekhar and Prof. J.I. Furtado, Malaysia; Prof. Ang How Ghee and Dr. Theng Chye-Yam of Singapore; and from Thailand, Prof. Kamchorn Manunapichu and Dr. Kamchad Monghokol and two representatives from Indonesia.

To come out with the status of a non-governmental body ensued from what turned out to be representatives from organizations of science or scientists in each country within the Southeast Asian region. There are government as well as private associations.

The same pro-tem body was to maintain contact between individuals, societies and institutions.

The following constitution was drafted during that Kuala Lumpur meet.

**ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE IN
SOUTHEAST ASIAN NATIONS (AASSEAN)**

PREAMBLE

The national associations for the advancement of science in the member states of ASEAN:

- 1) Recognizing the importance of closer ties among national associations for the advancement of science in assisting the people of this region attain the highest possible level of scientific advancement and its applications in the process of modernization.
- 2) Realizing the need for mutual cooperation and collaboration in advancing science and applying it.
- 3) Having organised the Association for the Advancement of Science in South East Asian Nations (AASSEAN).

Do hereby adopt and promulgate this constitution in Kuala Lumpur, Malaysia on 14 March 1982.

ARTICLES

Name:

- 1) The name of the organization shall be the Association for the Advancement of Science in South East Asian Nations (AASSEAN), hereinafter referred to as "the Association".

Objective

- 2) The aim of the Association shall be to promote the advancement of science and its applications in the South East Asian nations consonant with their process of modernization and development.

Activities

- 3) The Association shall discharge this aim through the following activities:
 1. Organising meetings, symposia and congresses comprising lectures, discussions, exhibits, demonstrations and other scientific activities.
 2. Issuing publications including proceedings of meetings and journals.
 3. Promoting interdisciplinary cooperation.
 4. Encouraging and sponsoring working groups for studying and understanding specific issues or areas of science and its applications.
 5. Promoting international scientific cooperation.
 6. Recognising outstanding contributions to the advancement of science and its applications in the region.

Bio Energy 84 Scheduled in Sweden

7. Formulating and representing opinions on contemporary issues of science and its application in the region.
8. Doing such other activities as are consonant with the aim of the Association.

Membership

- 4) The unit of membership shall be each of the national associations for the advancement of science in the South East Asian nations.

Fees

- 5) Each member association shall pay a membership fee to the Association, as shall be determined by the Council.

Delegates

- 6) Each member association shall appoint four (4) delegates who shall *ipso facto* be members of the Council.

Council

- 7) The Council of the Association shall be composed of delegates of the member associations and the officers of the Association.
- 8) The Council shall determine the general direction of policies and affairs of the Association, and shall meet at least once every two years.

Officers

- 9) The office-bearers of the Association shall be the Chairman, the Vice Chairman, the Secretary, the Treasurer and the Editor.
- 10) Office-bearers shall hold office for two (2) years.

Voting

- 11) At meetings of the Council, each member association shall have one (1) vote.
- 12) Decisions on all matters shall be decided by a consensus of Council members.

Constitution and By-Laws

- 13) At least six (6) months' notice in writing shall be given to the Secretary for any proposal to revise the Constitution and By-Laws at a Council meeting, and such an item must appear on the agenda of the meeting.

Secretariat

- 14) The secretariat of the Association shall be located in a city of a country within the grouping of South East Asian nations.

Dissolution and Liquidation

- 15) A special meeting of the Council shall be convened to decide on probable dissolution and liquidation.
- 16) The decision of dissolution shall be taken only by consensus.
- 17) In case of dissolution the Council shall decide on the disposition of assets of the Association, and shall elect persons to be charged with carrying out the liquidation.

The Swedish BioEnergy Association and the Swedish Trade Fair Foundation have decided to arrange Bio-Energy '84, a world conference and exhibition, in June 1984 in Gothenburg, Sweden.

Bio-Energy 84 is intended for all those working with energy technologies and energy planning. The most important group consists of the representatives of local and regional authorities. Bio-energy activities provide unique possibilities for local, municipal and regional development all over the world. Apart from cheap energy, bio-energy technology takes care of the resources in the vicinity and creates employment.

The total concept of biomass for energy with some accent on biomass for heating and power purposes will be analyzed in different seminars. The speakers will be international and the main language is English. Of course, simultaneous interpretation will be provided.

Background

The bio-energy world got together in 1980 in Atlanta, Georgia, where the Bio-energy Council arranged the first world meeting and exhibition in which about 2000 delegates took part. The rate of development and commercialization of many different bio-energy technologies are at such a high level that it is time for a new world meeting.



SEEK COLLABORATION (from page 11)

In a larger sense, the paper drew much attention. Foremost, because it had a wide coverage of areas including botany, chemistry and applications. Another factor, it was the only paper on essential oil.

Actually, some of them reiterated to help Filipino natural products chemists learn thoroughly some new techniques in the field. Many of them shared the opinion that an international cooperation and exchange professorship would be most useful.

The trip was considered fruitful in many ways. In a very short trip, she was able to carry out other things:

- o Conferred with Dean John Ruggiero of the School of Pharmacy of Virginia Commonwealth University in Richmond, Virginia. They discussed on the possibility of joint projects between this university and the Philippine Women's University on studies of physiologically active components from Philippine plants. Other plans and groundwork worked out for the proposed joint venture.
- o Discussed with Dr. Brian M. Lawrence, director of Research and Development of Avoca Division of RJReynolds Technical Co. at Winston-Salem, North Carolina. Topic: To further and expand present collaborative research works on essential oils. Some results of joint studies on the chemistry and novel uses of essential oils from Philippine plants have been accepted for presentation at the forthcoming International Congress of Essential Oils in Singapore on March, 1983.
- o Followed up with Rene Oliveros, chemical and steam engineer at Torrance, California on possible laboratories which

• a biennial recognition ~

Plans for IBM S & T Award Up

The IBM Philippines in cooperation with the National Science and Technology Authority is spon-

soring a program giving away P70,000 prize for scientific and technological innovation by Filipino scientists.

RULES FOR '83

(from page 1)

biological sciences, physics, mathematics, chemistry, agricultural sciences and engineering. An awardee will receive a trophy and a cash prize of P10,000.00 from the National Academy of Science and Technology.

Stripped to its essentials, the nominees should meet these requirements:

1. Filipino citizen, not more than 40 years old on July 10, 1983 and not a day older;
2. At least a Bachelor's degree holder in one of the aforementioned disciplines;
3. Major researcher of a project or research activity.
4. An awardee should be willing to read a paper within a year upon presentation of the award.

Head of government or private research institutions including colleges and universities may submit nominations to NAST.

Entries must be in the hands of the NAST Secretariat at Paulino J. Garcia Hall corner Pedro Gil and Taft Avenue by February 28, 1983, regardless of postmark.

might be tapped for donations of materials. These will be needed to carry out research in medicinal plants.

Asked what she considers inspiring during her recent trip, she immediately quipped, "it was the common goal of orienting research objectives towards usefulness to mankind."

To be eligible, the criteria for contributions to qualify for the award have been drawn. The accomplishment of this Filipino scientist is one that 1) contributes to an increase in national technological wealth; 2) introduces innovations or technical improvements in the productive sector and 3) stimulates new technology.

The awarding of IBM prizes shall be made by a seven member awards committee constituted by IBM and the NSTA. Already, the following have been asked to compose the panel of judges, they are:

1. Dr. Emil Q. Javier, Academician, Director General, National Science and Technology Authority;
2. Dr. Paulo C. Campos, Academician, President, National Academy of Science and Technology;
3. Dr. M.S. Swaminathan, director general of the International Rice Research Institute;
4. Mr. Jaime Zobel, vice chairman and Executive Vice President of Ayala Corporation;
5. Atty. Edgardo Angara, President, University of the Philippines;
6. Mr. Manuel Alba, Budget Minister and former director, Technology and Development Institute, East West Center and
7. Mr. Juan Quesada, Jr., chairman, Philippine Inventors Promotions Foundation.

The awards committee will make all the nominations. In case of a tie, the awards committee may decide to split the award amount.





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