

**Carmen T. Fernandez**  
BSC III



## Pensées

As I wasted ink and lead on sheets and sheets of paper scribbling images that looked up at me like detached intruders distorted with confused virtues, it never occurred to me that I came up with something quite real in a way. It seems people have always been like this: confused, virtuous and distorted.

A great lover can be virtuous. Then you will have doubts, and he will have his own, too. Well, but what is virtue today? Sometimes, one just has to learn how to distrust. I do not know whether this is what you call self-deterioration or whether I'm just beginning to see things as they really are, without the pink glasses of what was once youth, stupid youth. It seems that there is in every people we meet that knowing look of scrutiny, a look that takes in the other as if he contributes to the threat of his "survival". In the end, everything seems to be competitive. You'll have to be on guard with people, and you will not be all too surprised that it will be all the more so with people whom you have gotten to know. It makes one feel selfish, just as the rest of them are selfish.

It makes one feel that he has to be selfish because he can't afford to let their selfishness crush his plans for what he hopes to be his future. Looking back, it makes one feel that the convent walls and the priestly toles were lies: it has withheld the truths of what a friend of mine has termed "the brute realities of life". But then they were just too young and too sheltered to know.

Even in college, students haven't been given their full burden yet, their burden of individual assertion. Advisers who range from priests to laymen still tell them what to do. Maybe the student will learn more if he finds out for himself. It is a sad thing to have some priests who reprimand students like they do with kids.

Perhaps the administration will complain that the capacity of the average student hasn't been fully developed. The student is likely to ask what incentives the administration has offered. There are times when reading a book would be more profitable than having to listen to some professors who engage in idle talk for half of the period. It's a pity to see good professors walk out to other schools. People don't realize what it means to lose something unless it's gone.

Of course, anyone can congratulate them for the wonderful library that it has, the Anthropology dept., the many rich lectures that have been given by men of accomplishment and many others. Still...

These are the things where the student council comes in — and perhaps that's where they go out, too.

There's one thing about the student council and student politics — it's interesting — with all the stock speeches, the usual stereotyped promises. Some vary and say it with the Manglapus touch and don't

be surprised if somebody comes up with the Bostonian accent of Kennedy. There will be stock issues on where the student money has gone, an unimplemented program, the feasibility of the opponent's platform and so on.

It is all a battle of wits, like a game of chess, and everybody's apt to enjoy it.

The city dads seem to be concerned about employees in the City Hall undeserving of pay because they do practically nothing. Well, a little typing, maybe, but that's about all. That would be a waste of funds, of course. Now, they're concerned about people's money. It's about time. Besides, it's not that alone. There's still the public schools to think of, and public hospitals which could use a little more cleaning and tidying up. And those bumpy roads.

The worries that we're having now are not a speck compared to what they're having in Vietnam. I hear they're bombing the fuel supplies to make the war too expensive for the enemy to go on. Strikes and demonstrations are expected. There is economic disturbance in one and some form of boom to others like the aircraft industries. Think of the demand through all the years of the war which they say is going to be a long one yet. The evil still exists in spite of what has come up within the last 5 decades where man seems to be a conqueror—the moon and Mars and space. And not only war—poverty, too. I wonder if the time will come when there will be no more riots on racial supremacy, no more wars, no more poor people, no more disease. And no more deaths, ugly death. That would be a big, big joke. For what is life but death and death life?

I had my first taste of death just recently when my niece died. I had great expectations from the little girl. So had everyone in the family. With her gone, emptiness has engulfed us. The emptiness will seep away for sure, but the void in us must not go with it. No one can afford to forget death entirely and the lessons that come with it.

The last thought that would come to anyone is the thought of dying. We move through time as if we don't die. It wouldn't be a nice thing at all to be thinking of death too often, but perhaps the best thought that can come to anyone is death, his own death. That's about the only time he pauses, to ask just what is there after death.

To the existentialist, there is nothing. To the Christian believer, there is something eternal. To a good number, there is doubt. And perhaps this holds true to all of us. Can the existentialist and the Christian say there is and there is none? If we believe, then there will be. And perhaps if we don't, then there will be none. That would be a funny set-up.

And yet everything seems funny, anyway.

# USC NEWS

## ADMINISTRATION

### FACULTY CLUB HEARS FATHER PRESIDENT ON XIAN AIMS IN EDUCATION

The fact of redemption, the crucifixion on Golgotha... these are the "fullest reality and... The cross-point of history" on which the thoughts, hopes and destinies of centuries past converged, and from where "the rays of faith, all thought, all hopes and, all destinies of our days proceed."

At the start of each schoolyear, the University President meets with the faculty to spell out the academic and administrative programs sought to be implemented, and concludes with inspirational talk. In such a meeting Sunday, July 24 at the Audiovisual Hall, the Very Rev. Dr. Rudolf Rahmann, SVD, underscored the Christian factor as that which we should expect to be found at the core of all human undertakings.

"We should expect that after nearly twenty centuries of evangelization this civilization would be fully imbued with the spirit of the Gospel. The fact, however, is that we are still far away from such happy conditions.

"... Many of the evils of our time are the result of wrong teachings in our Universities during the previous decades and centuries, and they consequently must be overcome by a teaching that is in the spirit of Christian humanism."

The Father President then drew a note of optimism over recent and current attempts in education to serve the Christian ends. He cited the "growing rapport between sound metaphysics and the natural sciences, the growing literature on the idea and the purpose of the University." He also mentioned the significant recent assemblies of the International Federation of Catholic Universities and the International Association of Universities, serving the theme of Christian humanism.

"It must truly be an honor and a challenge to us to have a part in this noble pioneering movement which strives towards what Maritain describes as 'a world of free men imbued in its secular substance by a genuine and living Christianity...'"

At the same occasion, outgoing Faculty Club President Francisco P. Pilapil gave his term-end report. Dr. Jorge Dosdos, president of the USC Alumni Association, announced the progress of the current alumni fund campaign.

New officers elected by the Faculty Club are: Prof. Ben N. Borromeo, President; Mrs. Rosario D. Javelosa, vice president; Mrs. Julieta B. Samonte, social secretary; Miss Perfecta Guanco, recording secretary; Prof. Rebecca L. Galeos, treasurer; and Prof. Vicente J. Gorre, auditor.

ERRATUM: Page twenty-six has been erroneously marked "Page Thirty-six". Our apologies. — The Printers.

## TRUSTEES DESIGNATE TOP-LEVEL FUNCTIONS

In recent weeks the Board of Trustees created new offices and designated new functions within the University. The actions came in line with current administration moves to respond more precisely and effectively to the needs of this rapidly developing institution.

Here is an integrated list of the new appointees and their corresponding competencies:

**Director of the Technological Center**  
This office is to operate in consonance with the Board as well as with the University President in being mainly concerned with the further development of the Center.

The Director will endeavor to acquire new grants and scholarships and "to conduct negotiation concerning programs for experts and visiting professors as well as exchange students."

Rev. Philip T. van Engelen, SVD, was appointed Director of the Center July 16. He is also expected to work towards the establishment of a Graduate School for the Center and set up a vocational (non-academic) extension program. Father Philip is to represent the Center in relations with Philippine and foreign authorities.

The College of Engineering and Architecture, being identical with the Technological Center, will continue to be directly administered by the Dean, who is responsible for all academic and educational matters. The incumbent dean is Prof. Jose A. Rodriguez. Prof. Pedro Yap was appointed, July 9, Assistant Dean of the College of Engineering and Architecture.

**Administrator of the Physical Plant in Talamban.** The Physical Plant comprises the Technological Center, the Chemical Pilot Plant as well as the surrounding area within USC premises. Rev. Michael Beck, SVD, appointed Administrator July 8, was likewise put in charge of the extension of the Registrar's Office in the Technological Center.

For the Chemical Pilot Plant, in its action July 14, the Board of Trustees created the office of Scientific Director and named Rev. Dr. Michael Richartz, SVD, chairman, and Rev. Michael Beck, SVD, vice-chairman. The members are Prof. Ben Borromeo, Mr. Cornelius Pols, and Prof. Adelina Sarthou, secretary.

**Director of University Information.** In this office are to be coordinated all activities having to do with projecting the University image beyond the campus for public information purposes.

It may originate or collaborate in the preparation and issuing of press releases, University announcements, and such information materials as catalogues, bulletins, and other publications whether initiated by the administration, the faculty or students.

Director is Rev. Margarito Alingasa, SVD. He assumed the office July 13. In a previous action by the Board July 6, Father Mar was also designated officer in charge of the working students. He fulfills these duties while directing the activities of the Instructional Media Services (audio-visuals).

**Director of Athletics.** Rev. Thomas Mueller, SVD, was named Director June 28. He is to supervise and coordinate the varsity and intramural athletic activities of the University.

**Director of Physical Education.** Rev. Hermogenes Bacareza, SVD, appointed Director June 28, is to supervise the activities of the Physical Education Department. These include the special performances of the gymnastic group, the rondalla, and dance troupe.

**Director of Student Affairs.** This office takes over the positions of Dean of Student Affairs and Dean of Women, which have been abolished. The Director, Rev. Anselmo Bustos, SVD, was appointed June 15. Mrs. Elena S. Barba was appointed Assistant Director of Student Affairs in a Board action June 28.

Concurrent with his designation as student affairs director, Father Bustos was also appointed Alumni Coordinator.

**Director of Research, Scientific Collections, and Scholarship Program.** Appointed to this office June 15, with self-explanatory functions, was Rev. Dr. Joseph Goertz, SVD.

**Director of Student Publications.** This office assumes general management in the preparation and disposition of *The Carolinian*, a monthly magazine, and the *Semper Fidelis*, the graduation year book.

Rev. Luis E. Schonfeld, SVD, who has assumed those duties as Moderator, was appointed Director June 15. He is also concurrently Editor of the weekly *UNIVERSITY BULLETIN*. Father Schonfeld is to supervise the preparation and disposition of other publication materials produced by individual student effort.

**Director of Scientific Publications.** Dr. Gertrudes Ang was appointed Director June 15. She is to coordinate efforts in the publication of monographs, pamphlets, papers or reports related to science study and research in the University.

In association with a board of editors, Dr. Ang's immediate concern is the preparation of the *San Carlos Publications*, a series of monographs published by the Graduate School.

Other appointments are:

Rev. Dr. Joseph Watzlawik, SVD, as Acting Secretary-General and Head of the Philosophy Department, Graduate section;

Prof. Rebecca Galeos, as Acting Head of the Department of Chemistry, Undergraduate section;

Rev. John Berry, SVD, as Head of the Philosophy Department, Undergraduate section; and

The following faculty members to compose the University Committee on Faculty Appointments (USFA): Rev. Dr. Raymond Kolk, SVD, Chairman; Prof. Paulina Pages, vice chairman; Rev. Dr. Herman van Engelen, SVD, Prof. Teopista Suico, and Prof. Benjamin Borromeo, members.

## APPOINTMENTS

In a meeting July 25, the Board of Trustees appointed Dr. Lourdea R. Quisumbing Head of the Graduate Department of Education. At the same time, Mr. Alejandro Tantoco was designated Head, Department of Electrical Engineering, College of Engineering and Architecture.

Dr. Quisumbing has been with the USC Graduate faculty for several years. She holds an M.A. in Education degree, *summa cum laude*, from this University, and a Ph.D. in Education degree from the University of Santo Tomas.

An earlier report carried only the names of recent appointments to faculty positions in the Teachers College. Here are individual details:

Mrs. Clara Lucero, appointed Head of the B.S.E. Department, has for the past two years taught Math, English and Education at USC. She obtained her A.A. from Cebu College of U.P., her B.S.E. from Silliman University, and in 1954 acquired an M.A. in Education at Diliman after defending her thesis on the "Socio-Economic Status of the Secondary Public School Principals of the Philippines."

Mrs. Corazon Gacasan, after 35 years with the Cebu Normal School faculty, now teaches English with the BSED Department. A critic teacher in English, she received her Master's degree at USC in 1951. "It is a privilege and an honor to be in this University and to work in it," says Mrs. Gacasan.

Miss Emma Dulay now has charge of the new course in Nutrition and Dietetics. In June 1964 she received her Master's degree in Sanitary Science and Public Health, minor in Nutrition, from Oklahoma University Medical Center after three years of graduate studies there. She had earlier finished an internship program in dietetics at the same school. She began studies at U.P. After graduating with a BSHE degree major in Nutrition, she took up dietetic internship at the PGH, completed service training at the Food and Nutrition Research Center of the NIST-NSDB.

Prof. Esperanza V. Manuel has been appointed Assistant Head of the Department of English. The action was taken by the Board of Trustees in a meeting July 25.

A member of the Graduate School faculty for some eight years, Prof. Manuel obtained her M.A. in English, *summa cum laude*, from this University in 1957 and was appointed associate professor last year. She also has a BSE degree major in English, *magna cum laude*, from the University of the Philippines.

## USC-ALEC PROJECT NOW FULLY UNDERWAY

A check for P5,000 from the U.P. Asian Labor Education Center was received by the University last week as the initial sum with which to undertake the study on labor and management in Cebu City.

Very Rev. Dr. Rudolf Rahmann, University President, accepted the check from Mrs. Annie R. Diaz, ALEC research associate. She came with Miss E. Varquez, U.P. graduate assistant, to collaborate with faculty and staff members of the USC Department of Economics. Department Head Dr. Marcelino Maceda is project director.

Economics instructors Perfecto B. Abayan is the third to compose the staff of project researchers, with Diaz and Varquez. They have trained and sent out 12 interviewers, with two more being oriented to the work. With this complement of 17, the study is expected to be completed in a month and a half.

The project connects with the ALEC objectives: to investigate the development and current status of the various aspects of the Philippine labor situation in the light of the history of the labor movement in the Philippines. ALEC intends to provide a source of information on labor and manpower requirements at all sectors of the economy, and to enrich and upgrade their labor training program.

## GRADUATE SCHOOL

### M. A. IN HISTORY PROGRAM

Approval has been received for a program of studies at USC leading to the degree of Master of Arts, major in History. It came in time for admission of graduate students into the new program given for the first time this semester.

Qualified to take the course are holders of A.B. or B.S.E. degrees with majors in history. However it was indicated that the new program, as drawn up by the Department of History, can also benefit undergraduate students, major in History.

The history program has been geared also to establish meeting points with studies in Philippine Anthropology as well as Southeast Asian Ethnology.

In faculty composition, the USC Department of History is believed to be strongest in the Philippines, with four members holding Ph.D. in History degrees, one Ph.D. in Ethnology, three M.A. in History and one M.A. in Anthropology.

History Department Head is Rev. Dr. Theodore P. van Zijl, SVD, Ph.D. in History. On his faculty staff are Dr. Vicente R. Pilapil, Ph.D. in History; Rev. Dr. Peter John Raats, SVD, Ph.D. in History; Rev. Dr. Luis Merino, OSA, Ph.D. in History; Dr. Marcelino Maceda, Ph.D. in Ethnology;

Rev. Joseph Baumgartner, SVD, M.A. in History; Prof. Samson A. Lucero, M.A. in History; and Mrs. Rosa C. P. Tenazas, M.A. in Anthropology.

Among the courses offered are seminars in the histories of Asia, China, Japan; Ancient, Medieval and Modern Europe; Spain, Latin America, the U.S.; and the Philippines; Introduction to Philippine Archaeology; The Present Ethnical Stratification and Cultural Historical Development of the Philippines; Pre-Spanish Social Life in the Philippines; History of Christianity in the Philippines.

Basic courses were limited to "an absolute minimum" in order to allow students more freedom of concentration in either Oriental or Western History. Seminars were preferred, rather than survey courses or having to determine the topics in detail.

In spite of the many seminars of only two units each, the Program offers a total of 51 units in professional history courses, whereas Masterand need only 21 units in their major field. The program was designed to give students ample choice of courses.

Communications concerning the new program may be addressed to Rev. Dr. Theodore van Zijl, Head of the Department of History, University of San Carlos, Cebu City. Inquires may also be made with the Graduate School Office.

### USC AWARDS THIRD PH.D. DEGREE

After passing her oral examinations June 25, Mrs. Fe Sepulveda Necesario, earned the degree of Ph.D. in Education, magna cum laude. She is the third to finish a doctoral course at USC.

On the panel of examiners were Rev. Dr. Raymond Kolk, SVD, adviser and chief examiner; Rev. Dr. Anthony Buchcik, SVD, and Dr. Lourdes Quisumbing, consultants; Rev. Dr. Joseph Goertz, SVD, Dr. Marcelino Maceda and the Very Rev. Dr. Rudolf Rahmann, SVD, examiners.

Dr. Narciso Albarracin, chief of the curriculum and instruction division of the

Bureau of Private Schools, attended the examinations as official Bureau representative.

Mrs. Necesario presented the thesis: "The Status of Supervision in the Private Secondary Schools of Cebu City in the Light of Accepted Supervisory Practices."

She took undergraduate courses at the University of the Visayas where she obtained her Elementary Teachers Certificate, cum laude, B.S.E. degree cum laude and M.A. in 1955. She has taught at the elementary school, high school and college at UV and has been Graduate School instructor and Director of the Secondary School at the same university since 1962.

Mrs. Necesario also serves as vice president of the UV Faculty club, treasurer and one-time vice president of the UV Teachers Cooperative credits union, and in 1964 was a board member of the UV Faculty-Alumni Association. Last year she was seminar speaker at the Divine Word College in Tagbilaran, Bohol.

### ANTHROPOLOGISTS JOIN TALKS ON RP PRIMITIVES

Two delegates from the USC department of anthropology gave first-hand knowledge of some Philippine cultural minorities at a Visayas-Mindanao conference in Zamboanga City July 5 to 8, called to assess the situation obtaining among primitive tribes.

Dr. Marcelino N. Maceda and Rogelio M. Lopez were among 36 persons invited to the conference which was held in the Peace Corps Center in Ayala, Zamboanga City. Those who attended were mostly missionaries. Government personnel sat as observers.

The talks were a follow-up of the Luzon Conference of May 7-12. Subjects of discussion were: 1) an assessment of government policies and existing laws relating to cultural minorities in the light of available facts on life in tribal communities; 2) a study of the current social, economic, political and other related problems of cultural minorities, both immediate and far-ranging; 3) a determination of problem areas requiring study; and 4) an examination of constructive modes for social action.

Maceda and Lopez spoke with some authority at the discussions, having undertaken on-the-spot studies of backward tribes for some considerable time. Maceda has worked among the Negritos of the Philippines since 1956; Lopez has spent time with Manobos of Southwestern Cotabato since 1963.

This University has, for several years now, endeavored to set up a pilot community for wandering Negritos of Northeastern Mindanao, near the Agusan-Surigao boundary. These are believed to be the most primitive cultural group in this country today, who face constant threats of dislocation by lumbermen and other franchise-holders. There has as yet been no success in constant approaches made with the Government for a land grant of some 100 hectares needed for the pilot community.

The Zamboanga conference came under the purview of the Commission on National Integration as well as the Christian Institute on Special Ethnographic Minorities in South and Southeast Asia.

An on-going interest of USC is to contribute scientific assistance towards the ultimate integration of the cultural minorities and primitive people into the mainstream of Philippine social life.

### FATHER LINDEN JOINS ANTHROPOS INSTITUTE

From the headquarters of the Anthropos Institute in St. Augustine's near Bonn, Germany, comes the news that Rev. Dr. Cornelius van der Linden, SVD, has been appointed member of that institute.

To the Institute belongs a group of SVD Fathers, specialists in the fields of ethnology (Anthropology), linguistics, archaeology, history of religions, etc. Father President Rudolf Rahmann and Rev. Dr. Eugene Verstraelen are members of the Anthropos Institute.

USC warmly congratulates Father van der Linden, who is now on leave here for a sabbatical year.

At San Carlos in 1957, Father van der Linden was dean of the Graduate School and professor of Linguistics, Indian Philosophy and Indian Literature. Ill health forced him to return home to Holland where he was appointed Professor of Ethnology, History of Religion, and Indian Philosophy, serving first at the major seminary in Teteringen-Holland and then at Heide-Belgium. That is the position he holds today.

Indian philosophy, language, culture, history and religion have been Father van der Linden's field of interest since 1939 when he missed out on his first missionary appointment due to the war. He studied these subjects instead at the State University of Utrecht and in 1946 finally made it to India, where he stayed for only three years due to poor health.

From USC, he has lectured in Holland, Belgium and England and has published some 45 articles in different magazines, including Anthropos. In 1960 he acquired a doctoral degree in Linguistics from the Catholic University of Nijmegen in Holland.

While spending his sabbatical year here, Father van der Linden carries on work on his book on the Baranggay.

### MACEDA GETS NRC GRANT FOR STUDY ON BLACKSMITHING

Dr. Marcelino N. Maceda, head of the Economics Department (Graduate School), recently received a check, the first instalment of a grant amounting to more than P6,000.00 from the National Research Council at University of the Philippines, to undertake a study on "The Blacksmithing Industry of Basak, Cebu City and Its Subsidiary Industries." With him as research assistant is Leonidas S. Tan.

The study covers the following aspects: 1) the blacksmithing industry and its subsidiary industries; 2) the people involved in the industry; 3) the economic significance of the industry to the people of the barrio and Cebu City; and 4) the present status and problems of the industry.

This is the second of its kind given by the Council to Carolinians. The first was: "A Study of the Ready Made Clothing Industry in the Town of Minglanilla," by Rev. Richard Arens, SVD, in 1960.

### LOPEZ GETS GRANT FOR PH.D. STUDIES

Rogelio López became the recipient recently of a fellowship grant of P2,700 from the Research Foundation in Philippine Anthropology and Archaeology.

Notice of the award was communicated to the Father President by Alejandro

R. Roces, chairman of the Board of Trustees of the Research Foundation.

The grant will enable Mr. López to pursue studies at USC towards the doctor's degree in Anthropology. He is presently a member of the faculty of the Department of Anthropology. In 1965 Mr. López obtained his M.A. in Anthropology degree, magna cum laude. He has since been actively engaged in research work in that area of specialization under the auspices of the department.

## ARTIFACTS FOR ANTHROPOLOGY

A number of iron age potteries, still whole, has just been donated to the Department of Anthropology by Mrs. Dulce T. Kiamko of Carmen, Cebu, who made the donation in behalf of her daughter Dr. Rosario T. Kiamko, USC alumna now pursuing further studies in Medicine in America.

The artifacts were discovered by Felipe Kiamko in a cave about 30 minutes walk from barrio Cogon via Kantumog road in the northern town of Carmen. According to Mr. Kiamko, human skeletons and more potteries are still to be found in two caves nearby.

A team from the Department of Anthropology will be sent to investigate the reported burial sites.

## NEW MASTERS

Leonardo Lopez, faculty member of the Physics Department, has received a Bureau certification for his degree of Master of Science in Physics. He wrote a thesis entitled "A Comparative Study of Various Quarter-Wave Compensating Methods."

The other recipient is Rogelio López of the Department of Anthropology faculty for his Master's degree in Anthropology. His thesis is on the "Agricultural Practices of the Manobo in the Interior of Southern Cotabato, Mindanao." He is now pursuing full-time doctoral studies in his field in San Carlos.

Two more graduate students successfully passed their oral examinations during the first week of July. Mr. Artemio Ferraren of Abra took the examination for his Master's degree in English while Mr. Jaime Mordeno, Jr. of Surigao del Norte passed the orals for his M.A. in Education.

Ferraren wrote his thesis on "Tinguian Folklore and How It Mirrors Tinguian Culture and Folklife" while Mordeno wrote on "The Professional Growth and Teaching Efficiency of Public Elementary School Teachers in the Division of Surigao del Norte."

## ARTS AND SCIENCES

### BOOST OPTICS RESEARCH

Part of an expected large shipment of precision instruments for optics research at USC has arrived. With these, Rev. Dr. Michael Richartz, expert in optics here, may soon seek experimental verification of several methods he has proposed publicly.

In recent publications in professional science journals, Father Richartz has proposed several methods for accurate measurements in photometry, polarimetry and ellipsometry. However, he has been unable to establish their validity for lack of the specialized apparatuses.

The recent shipment was purchased from a grant that has been awarded to Father Richartz by the Fritz Thyssen

Foundation of Germany through the services of the Bad Godesberg's office. Received were a multiplier phototube and a supply-voltage apparatus worth a total of 4,800 DM (the same amount in pesos).

With the multiplier phototube extremely small quantities of light can be determined. This device is an improvement on the simple photoelectric cell used in scientific work to measure the intensity of a light beam with precision.

Father Richartz describes it this way: "When light of a definite frequency is incident upon the surface of a metal, a number of electrons proportional to the light intensity is emitted. These photoelectrons then are drawn to the collector (anode) by an electric field."

"In the multiplier phototube the photoelectrons are accelerated to the first of a set of auxiliary electrodes called "dynodes." The surfaces of the dynodes have the property of liberating several electrons for each electron which strikes them. In this manner the initial photocurrent is amplified as it passes from dynode to dynode."

The recently acquired phototube 1P22 has nine dynodes. Here the current to the collector (the anode) may be 100,000 times the primary photocurrent.

Photoelectric cells are popularly used in the production of sound motion pictures and in television, as light relay safety devices in traffic control and controls for industrial processes. They are also an aid for the blind.

Father Richartz is well published in U.S. and German scientific journals, having specialized in optics research since he was a member of the faculty of Fujen Catholic University in Peking before the Red takeover in 1951. Having gained international recognition in optics work, his writing have often been widely reprinted.

## NEW EQUIPMENT FOR BIOLOGY

Six items of laboratory equipment from Germany reached the Biology department last week and are going into use in experiments involving breeding, incubation, cultures, storage, propagation, weighing. One item is the incubator-autoclave Heraeus with a temperature range of 20 to 200 degrees C. This is useful for

microbiological cultures; breeding of insects at varied temperatures; incubation; seed treatment; sterilization of dishes and media; drying. Another incubator for microbiological studies has a range of 15 to 150 degrees C.

A Bosch refrigerator stores perishable chemicals, including plants and animals, eggs (e.g. mosquito) for long terms. It is also useful in experiments involving temperature tolerance.

A Mettler balance, with a sensitivity of from 160 g. to 0.03 mg. is for fast and accurate analytical weighing, both for chemicals and specimens, especially useful in physiological experiments. Another with a sensitivity of from 3 kg. to 1 gram is for semi-micro and macro weighing.

An olympia office typewriter with a 15-inch carriage has biological symbols.

## USC SEEN AS CENTER FOR LEPIDOPTEROLOGY

Research, field work, on-going projects in the science of butterflies, being undertaken at the biology department of this University, are focusing national attention here among students, teachers, hobbyists, scientists.

It was a member of the biology faculty, Prof. Julian N. Jumalon, who with a few others founded what is now known as the Philippine Lepidopterists' Society. Formally organized here in 1963, the group has now enlisted 65 members from Cebu, Luzon, parts of the Visayas and Mindanao. It also has members in Germany and New Guinea.

The Society aims to help spread the science of lepidopterology awaken Filipinos to the understanding of their worn biota, and encourage their study and collection. It also encourages an appreciation of nature and the keen understanding of the need for conservation and preservation of nature's gifts.

Incidentally, it was learned that while Japan has some 40 societies engaged in lepidoptera research, only the PLS exists in the Philippines.

Most of its active members are university teachers and students. Young members are getting so seriously engaged in the study that they undertake small-party expeditions to Bohol and  
(continued on page 10)

## BIOLOGISTS HIT IT RICH!

After an exhausting summer term a group of USC biologists took a breather by way of a collection trip.

On the night of July 4th, Prof. J. N. Jumalon, his son Ariel and a P.M. student, Mr. N. Regis, set out for Bohol. The next evening Mr. C. Plateros and an enthusiastic friend of the Jumalons, Mr. Taboada, followed. The author, Miss Aida Colina and Miss Junonia Jumalon took the boat on Wednesday evening. All met at the forest-clad and mountain-ringed Magsaysay Park, Bilar, Bohol.

For days they waded through mud, scaled precipitous hills, penetrated the hostile jungle. At night their aching bones found little rest on the stone floor and the thin blankets were no match against the biting cold. But this was all part of the game which they heartily enjoyed.

By Saturday, the entire group prepared for the return trip in a triumphant mood. Everyone carried a part of the treasures to be added to the biological collections of San Carlos.

Of the 13 species of birds collected, seven were new. Three species were collected which hitherto had not been even known to exist in Bohol.

About 400 butterflies had been caught of which three species are new to the USC collection. One specimen had been hunted for in vain during the last 10 years.

More than 150 perfect specimens will enrich the bulging USC collection and many more will be sent to foreign countries. Some 350 specimens of beetles, bugs and other insects were collected. More than 10 new species were amongst them.

Most outstanding were the exploits of our young botanists who added to the herbarium collection more than 50 new species, most of them fungi and ferns. These eager beavers, Aida and Junonia, deserve our most sincere congratulations.

The expedition was a real break not only in the daily routine but a break for the USC Biology Department.

Enrique Schoenig, SVD

## VISITORS

Mr. Frazier Meade, US consul in Cebu, paid a courtesy call on the Father President at 11:00 a.m. August 2.

The American official was welcomed at the University by Fathers Rahmann, Vogelgesang, Watzlawik, Kolk, Mueller and Bustos.

After a brief visit at the President's office, Mr. Meade found the University Libraries and expressed surprise at the extensive collection of books and periodicals. Rev. Joseph Baumgartner, Chief Librarian, assured Mr. Meade that the consulate staff and their ladies may make use of the USC library facilities.

His next visit was to the Anthropological Museum. Mr. Meade promised to pay a longer visit to San Carlos in the near future. He expressed keen interest in the scientific collections of the University.

Mr. James Kokoris, acting represen-



tative of The Asia Foundation in Manila, was a USC visitor July 25. He was accompanied here by Mr. Gerry Gil.

## COLLEGE OF ENGINEERING AND ARCHITECTURE

### REPRESENTATIVES OF GERMAN, RP GOVERNMENTS AT INAUGURATION

Members of the Cebu community joined the University administration faculty and students at the formal inauguration of the USC Technological Center on the Talamban campus Saturday, June 4.

Heading the guests were the Cebu Archbishop, Most Rev. Julio Rosales, His Excellency Johann von Stechow, ambassador to the Philippines of the Federal Republic of Germany, and U.P. Dean Francisco Nemenzo who came in behalf of Education Secretary Carlos P. Romulo.

The Very Rev. Dr. Rudolf Rahmann, SVD, University president, gave the address of welcome.

Mons. Rosales performed the blessing ceremonies.

In his speech, the German ambassador hailed the completion of the Center as "another milestone on this University's and this country's way towards progress and a brighter future." The complete text of his address is printed on page 9 of this issue.

Dean Nemenzo, of the U.P. College of Arts and Sciences, read Dr. Romulo's message which pointed to this University's significant role in the nation's efforts towards scientific advancement.

An expression of thanks was said by Rev. Philip van Engelen, SVD, regent of the USC College of Engineering and Architecture. The College is housed in the Center, which has a physical plant and choice equipments worth some Six Million Pesos, is gearing its efforts towards the production of effective engineers. It administers five academic departments: civil engineering, mechanical engineering, electrical engineering, chemical engineering and department of architecture.

Senator Manuel P. Manahan, chairman of the Senate Science committee, sent the following telegram:

**SENDING HEARTFELT CONGRATULATIONS ON INAUGURATION**

**TECHNOLOGICAL CENTER STOP IT IS FITTING RECOGNITION YOUR ARDUOUS SCIENTIFIC ENDEAVOR STOP MAY IT INSPIRE MORE PEOPLE TO JOIN YOUR EFFORTS AND RENDER SERVICE TO COUNTRY AND FELLOWMEN.**

Concluding remarks were given by Jose A. Rodriguez, Dean of the College of Engineering and Architecture.

The Very Rev. John Vogelgesang, USC vice president was master of ceremonies.

## MISCELLANEOUS

### DUTCH PROF. LECTURES ON MODERN MATHEMATICS

Dr. Wibbe Verdenius, on a mission by the Dutch government, gave a colloquy here July 30 on modern mathematics.

Specifically, Prof. Verdenius spoke on the elementary aspect of graphing, giving data useful in the study of calculus, integration and higher mathematics.

For the first part of his lecture, the visiting educator discussed the "derivatives of a function" and demonstrate a "curve tracing through application of derivatives illustrated by examples a) on



**REPRESENTATIVES** from the educational sector in Manila and Cebu gathered in Talamban June 4 for the formal inauguration and blessing of the multi-million peso USC Technological Center housing the College of Engineering and Fine Arts on the north wing, the Chemical Pilot Plant on the south. Among those present were Most Reverend Julio R. Rosales, Archbishop of Cebu; His Excellency, the Ambassador of the Federal Republic of Germany, Johann von Stechow; Dean Francisco Nemenzo who came in behalf of Education Secretary Carlos P. Romulo; Cebu Mayor Carlos J. Kuizon; Msgr. Esteban Montecillo; Rt. Rev. Msgr. Manuel S. Salvador; Regional Director Amalia S. Rodriguez of the National Science Development Board. With the Father President above left, is the German Ambassador.

high-school level, and b) on university-freshman level (Holland category).

For the second part, Dr. Verdenius presented proof of the theorem indicated in part one, which will require "nothing more than a fundamental notion, or even feeling, for mathematics and a basic understanding of the common number system." An open forum will follow.

The talk was intended for teachers and students in the senior level, although Engineering students were invited and those in the third, fourth and fifth years. The lecture was given in the Audio-Visual Hall at 2:00 p.m.

Dr. Verdenius is a professor at the State University in Groningen, Netherlands. He has lectured for many years in Holland and recently in the U.S. where he visited a dozen universities. He is here to collect data on the Philippine educational system, its extensions and needs, which he is to report to his home government for possible Dutch aid to developing countries.

Dr. Verdenius left Cebu for the Netherlands on August 21.

### TAIPEH SCHOLARS VIEW PRIMITIVE ART FINDS

Four specialists from Nationalist China passed through Cebu recently on a lecture tour in connection with the observance of the Chinese-Philippine Friendship Year. Their trip here was scheduled by the Research Foundation in Philippine Anthropology and Archaeology.

In the group were Dr. Chang Leon Long-Yien, director of International Cultural and Educational Relations, ministry of education; Prof. Chen Chi-lu, head of the department of archaeology and anthropology of the National Taiwan university; Na Chih-Liang, curator of the department of calligraphy and painting, National Palace museum; and Tan Tan-Chung, curator of the department of antiquities, National Palace museum.

Arriving at USC Sunday, July 23, the group was presented by Prof. Chen in a lecture at the Audio-Visual Hall on the primitive art of Taiwan, Prof. Chen

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## THE AMBASSADOR SPEAKS

Very Reverend Father President,  
Reverend Fathers, Members of the Board of Trustees.  
Distinguished Guests, Ladies and Gentlemen:

I wish to thank you most sincerely Very Reverend Father President, for your kind invitation to come here as your guest and to address a few words to you.

I am no longer a stranger to the San Carlos University. I have been here several times and I already regard myself as an old Carolinian. It is always a great pleasure for me to be with you, particularly on such a memorable occasion like today's inauguration of the Technological Center. The completion of this building is another milestone on this university's and this country's way towards progress and a brighter future. For me as a representative of the Federal Republic of Germany, it is most gratifying to note the tremendous gains and advances the San Carlos University has achieved in the last couple of years. Ever since in 1935, His Excellency, the Most Reverend Archbishop of Cebu has entrusted to the SVD Fathers this educational institution, it has become one of the pillars on which the bridge of mutual understanding between the Philippines and Germany is based. For this reason, the Federal Republic of Germany has generously contributed to the further expansion of the San Carlos University. On this occasion, it is up to me to thank you for the excellent use you have made of this German development aid. I could convince myself that every Peso has been well spent and not even the eyes of an auditor general would find a point for criticism.

Before this assembly I would like to underline another very important fact. German aid for all San Carlos University projects — like for any other development projects — is always given on one condition only: There must be a considerable counterpart of contribution. The San Carlos University contributed for the construction of this Technological Center more than two million Pesos! The same amount was raised for the Teachers College. I hope you all realize what such tremendous financial obligations mean for a private institution like this University. Besides the financial problems, the construction of such projects means many sleepless nights and many months of hard work and personal sacrifices.

We have a saying in Germany: "God helps those who help themselves." When I look at this building it seems to me that here this saying has come true. I, therefore, feel obliged to express my deepest gratitude to the Fathers of the San Carlos University, the Board of Trustees, and all those who have contributed to the realization of this great undertaking.

This Technological Center is only one of the many San Carlos University projects financed by the German Government and the German people, but it is in my opinion one of the most important ones. This Center will further strengthen the position of the San Carlos University as a leading institution in the field of Natural Sciences in the Philippines. This country with its enormous natural resources urgently needs trained scientists and technologists. But with the growing importance of science and technology in the life of the nation as well as in the life of any individual, our responsibility and duty to carefully make use of science and technology are growing, too. We have to ask ourselves again and again whether moral strength of men is developing at the same rate as technological progress. San Carlos University has realized the importance of these intellectual and

*(Continued on page 10)*

indicated that the art motifs found on wood carving and on the embroidery of the indigenous tribes of Taiwan have a widespread distribution throughout the circum-Pacific area.

In a visit the following day to the USC Department of Anthropology, the study group viewed the collections of earthenware pottery and burial jars and noted the strikingly similar motifs as those mentioned by Prof. Chen in his lecture.

The visitors were amazed at the quantity and quality of some specimens of protohistoric trade ceramics which have been recovered in archaeological sites in the islands and which they saw here in San Carlos and in private collections in Manila.

## LECTURES

### WHERE DO FILIPINOS COME FROM?

A lecture attempting to clarify this problem was given by Wilhelm G. Solheim II, American Archaeologist, at the Audio-Visual Hall, last Monday at 7:30 p.m. to a select group of graduate students and faculty members.

Mr. Solheim, a specialist in Southeast Asian Archaeology disliked the use of the term "race" in describing the various groups of people that came over to the Philippines while the archipelago was still a part of the Southeast Asian land mass. He believes that even before coming over to the Philippines, the groups were already mixed.

Pinpointing the general area where the Filipino ancestors came from would not be difficult, but a more precise determination of "racial" origin would almost be impossible. With this premise, he gave an outline of the prehistory of the Philippines from the age of early man until the arrival of the last "Malayan" immigrants.

Mr. Solheim has done extensive studies in reputed American universities at Berkeley, California, Chicago, and others and was at one time a student at the University of the Philippines under the tutelage of Dr. Otley Bayer, the "grand old man" of Philippine archaeology and anthropology. Formerly professor at Miami, he is now professor at the University of Hawaii, Honolulu, and works at the East-West Center.

During a spare moment here, he accompanied Mrs. Rosa Tenazas, Lionel Chiong, and Fr. Charles Hutterer to the newly discovered cavesites at Carmen, Cebu. With only preliminary diggings

spiritual values which will enable the future engineers and technicians to stand the proof in their profession, their family, in society, and in their country.

May I conclude these short remarks with the words of a message of the Germany Federal President D. Heinrich Lübke. When President Lübke laid the cornerstone of the Technological Center on November 20, 1963, he put the following message in the ceremonial concrete block:

"In perpetuum rei memoriam. On the occasion of the dedication of the Technological Center of the San Carlos University, Cebu City, I wish the Center success and God's Blessing. May it become a seat of research, of teaching and of technical progress for the benefit of the Filipino people."

*Address delivered by His Excellency Johann von Stechow, ambassador to the Philippines of the Federal Republic of Germany, as guest speaker at the inauguration of the USC Technological Center June 3, 1966.*

and superficial inspection, these sites are yielding very interesting pottery forms, it was said.

Prof. Solheim found these sites significant. "They might lead to the revision of the present hypothesis claiming only three major pottery complexes during the Iron Age phase in Philippine prehistory," he observed.

He goes home with the impression that we are now making strides in learning about our valuable past.

## ARTS AND SCIENCES

*(Continued from page 7)*

Leyte. Some are presently on a field trip to Mindanao and Bohol.

USC is the seat of this nation-wide organization. The Society uses this University's lepidoptera collection as a model and reference, even as it serves to encourage further efforts at study and collection. Prof. Jumalon is now in the process of expanding the University's local, national, and international collections.

At elections of the Society June 13, on the campus, ballots were counted from members present as well as those who mailed in their votes from the various parts of the country and abroad.

Reelected president was Prof. Jumalon who is to serve a two-year term up to 1968. Biology department head, Rev. Dr. Enrique Schoenig, SVD, is vice president. Vice-President for Luzon is Atty. Hermel Nuyda; for Mindanao, Rev. Pedro Alejandrino, S.J.; Humaida Jumalon was elected secretary; regional secretaries are Angeles Santiago for Luzon and Oscar Figuracion, Sr. for Mindanao. Treasurer is Matthew Sanson. Roberto Pestano is press officer.

Father Schoenig was also named editor of the PLES NEWS, turned out by the Society two to six times a year.

## BIOLOGICAL LIFE IN PACIFIC AREA THREATENED

A note of alarm was sounded in a letter received recently by the Biology department from the International Biological Project, an organization of leading world taxonomists concentrating in the Pacific area.

Plants and animals in this area, including the Philippines, are reported to be seriously threatened by the rapid advance of modernization in industry and ways of life, by the population explosion, as well as the widespread ignorance of the inhabitants about the value of biological life to science and the economy.

Prof. Julian N. Jumalon of the biology department, said the IBP is extending its plea for cooperation to this University in doubling efforts in the classification, collection, study and preservation of plants and animals in the islands, especially those in vital areas still unrecorded by science, and threatened with systematic destruction during our time.

The cooperation means a six-year period study, expeditions and field work. So few are the personnel trained for this work yet so urgent is the task, it was said, that even amateurs may be utilized in this biological project.

The University has been engaged in this particular work and has kept up collections of a size and variety believed to be little equalled in the Philippines. It has the country's leading entomological collection. Other collections include marine biology, fossils, fungi, ornithological specimens, and the flora of Cebu. Some of these are part of the Cebuana research project initiated here some time ago by the Rev. Harold Rigney, SVD, former USC Rector.



ARCHAEOLOGIST Wilhelm G. Solheim II traces probable route taken by Filipino ancestors from continental Asia, during a lecture at USC audio-visual hall.