

CAMPUS CURRENTS

Prolific faculty

An exhibit in the Administration Building showcases books, journals written and edited by SB faculty in 1985.....pages 4-5

STATE UNIVERSITY OF NEW YORK AT STONY BROOK

Apr. 28, 1986

SB Hatches Biotech Incubator Facility

By Alvin F. Oickle

A sheet of plain white paper with a short paragraph of agreement and four signatures will one day be an important item in the archives of the State University at Stony Brook. The signatures, including those of New York State Governor Mario Cuomo and University President John H. Marburger, were written Apr. 16 at a ceremony signalling the formal agreement of several state agencies to construct a biotechnology incubator facility on campus.

A \$700,000 allocation from the state Urban Development Corporation will be used this year to develop architectural designs and drawings for a 50,000-square-foot building near the Health Sciences Center, as well as for market studies and other pre-development services. Participants hope to have construction begun in a year and the building occupied by mid-1988. The estimated cost is \$3-\$8 million.

About a dozen fledgling businesses in biomedical and other high technology research areas will occupy the office and laboratory facility during their early years. When these incubator tenants "hatch," they are expected to go off-campus to construct their own buildings, pay taxes and contribute to the economy of Long Island and New York.

Biotechnology is a rapidly growing area of medical research and development that has produced important new industries in genetic engineering. Forecasters predict a multi-billion dollar horizon by the year 2000 for chemical, pharmaceutical, agricultural and diagnostic products and instrumentation using biotechnical processes.

Stony Brook was designed as a state Center for Advanced Technology in medical biotechnology in 1983 by the New York State Science and Technology Foundation because of its research capabilities. Under direction of Dr. Richard K. Koehn, Stony Brook's CAT has undertaken an aggressive program to foster development of university/industry cooperation in the life sciences field.

The campus site of the incubator will be north of the Health Sciences Center complex, in a wooded area at the corner of Nicolls Road and Daniel Webster Drive. Plans include a parking lot there for incubator tenants. Contingency plans include doubling the building's size to accommodate a greater need.

Governor Cuomo explained in the signing ceremony at the Health Sciences Center, "We come to Long Island not because it's our neediest area. We come to Long Island because the potential is so great. Conditions are already good and we want them to be better."

The governor added in his address to more than 200 state, regional and campus officials and members of the press, "There's another reason for coming to Stony Brook: the future. . . There are still too many kids not being properly educated. . . Stony Brook is going to help us do it. You're a very important potential for us."

That potential, as represented by the incubator facility, will offer opportunities for cooperative research by new commercial firms and Stony Brook's faculty and graduate students.

Both Cuomo and Marburger cited the vision a decade ago of George Low, the late president of Rensselaer Polytechnic Institute, in proposing laboratory incubator facilities.

The formal memorandum of understanding has been approved by

the participating agencies: SUNY, the Stony Brook campus and the state's Urban Development Corporation. This is the first Long Island project for UDC and the first of six incubator facilities announced for the Suffolk-Nassau region.

Besides Governor Cuomo and President Marburger, signatories of the document Apr. 16 were Donald Blinken, who chairs the SUNY Board of Trustees, and Vincent Tese, who heads the UDC. Provost Homer A. Neal welcomed the gathering and Dr. Koehn introduced Cuomo, Marburger, Tese and Blinken. All four spoke before signing the document, which will be placed in the University's Frank Melville, Jr. Memorial Library archives.

Before the memorandum of understanding becomes complete, the state controller and state attorney general must approve it. From there, the participating agencies will work out such "fine details" as legal ownership of the building and identify the management-operational agency, which is expected to be related to the Stony Brook campus.

Among campus officials active in settling details between the agencies are Pat Hession, manager of advanced technology in the Office of Research Administration, and Ann-Marie Scheidt, director of public affairs.

Fund Aids Former Sunwood Residents

The Sunwood Survivors Fund has collected \$4,276.52 for the former residents of Sunwood, the Old Field estate that had served as the University's guest house and conference center until it was destroyed by fire early in March.

The money has been given to Carmen Vazquez, associate director of student union and activities, Gary Matthews, director of residential physical plant, and Edward Casper, a University senior who lived at Sunwood as caretaker.

Bill Fornadel, director of student union and activities, said the money was collected from University faculty, staff and students. Fornadel initiated the Sunwood Survivors Fund to aid Vazquez, Matthews and Casper, who lost all of their personal belongings in the fire. There had been no insurance.

In a letter sent to each Fund contributor, Fornadel said, "I found it gratifying to learn that people at Stony Brook care so much and are willing to share to help their friends and colleagues. Please know that your kind response to this tragic situation will always be remembered."

SB Singles Plan Outings

The Stony Brook Singles are planning several outings.

If you would like to take a weekend camping trip to the Catskill Mountains, or a canoe trip on the Mullico River in southern New Jersey (ideal waters for the inexperienced paddler), call Tom Wilson at (24)6-3341.

Anyone interested in taking ballroom dancing lessons with a professional instructor on Tuesday or Wednesday evenings at 7:30 p.m. should call Janet Koenig at (24)6-5043 or Jeannette Reynolds at (24)6-5940 as soon as possible.

Also in the works is a wine and cheese party, a miniature golf outing, a winery tour and a gathering with the singles group from Brookhaven National Laboratory. If you would like to help plan any of these events, call Sally Flaherty at (24)6-5940.



Governor Mario Cuomo stresses the need for university-industry cooperation.

Transplant Day Explores "Required Request" Issues

By Maxine Simson

"Long Island Transplant Day," a conference held earlier this month at University Hospital in Stony Brook's Health Sciences Center, attracted 150 health professionals. The gathering, sponsored Apr. 10 by the Department of Surgery in the School of Medicine, focused on the latest medical and ethical issues of organ donation for transplantation, and on the Required Request law (passed June 1985) for organ donation in New York State.

The session brought together two special groups—area residents who have successfully received transplanted organs and those who are waiting for available organs. They were joined by their families and hospital administrators from Nassau and Suffolk Counties. Other invited guests included the staffs and patients of leading dialysis units on Long Island, including nephrologists, internists, nurses and social workers.

Felix Rapaport, M.D., professor of surgery and director of the Transplantation Service in the Department of Surgery, moderated the conference. Rapaport is known for his work in the areas of tissue compatibility in organ transplants and development of methods for preventing rejection of transplants.

Assemblyman James Tallon (D-Binghamton) outlined the new Required Request law, which took effect in January of this year. He and other speakers explained that New York is the first state to implement comprehensive legislation that mandates hospitals to actively seek consent for organ and tissue donation. Hospitals now must raise the question of donation with next-of-kin at the time of a patient's death, unless a person is known to be opposed to donation or is medically unsuitable.

The intent of the law is to increase donations throughout New York State.

Summer Crafts Center Series

The Crafts Center will present a summer series of arts and crafts courses for children, starting June 30.

Classes—in silkscreen, clay, photography, weaving and painting—will be held in the mornings.

Summer courses for members of the University and surrounding community will begin in early June. Pre-registration is necessary. The Center also offers memberships to those who would like to work on their own with its ceramics or photography facilities.

For more information, call the Center at (24)6-3657 or (24)6-7109.

Conference speakers noted that there are not enough donated organs to meet statewide transplantation needs; transplant candidates often must wait months for an organ. In the New York-Long Island metropolitan area alone, 800 patients currently are waiting for kidney transplants.

The Stony Brook program served as an introduction to National Organ and Tissue Donor Awareness Week. Conference participants included University President John H. Marburger; Marvin Kuschner, M.D., dean, School of Medicine; William T. Newell, director of University Hospital; Harry S. Soroff, M.D., professor and chair of Surgery; the Rev. Robert Smith, director of Chaplaincy Services at University Hospital and a member of the Governor's Task Force on Life and Law; William Reynolds, D.D.S., director, Health Care Standards and Analysis, New York State; Joel Sherlock, M.D., director of the Long Island Transplant Organ Retrieval Program; and J. Howard Oaks, D.M.D., vice president for health sciences at Stony Brook.

The Long Island Transplant Program at Stony Brook offers its facilities and

(continued on page 2)

Eight Faculty, Staff Honored for Excellence

By Alvin F. Oickle

Three faculty members, two librarians and three employees in professional service have been honored with 1986 President's Awards for Excellence at Stony Brook. President John H. Marburger presented the awards in a ceremony at the University's Fine Arts Center earlier this month to:

- Dr. Robert Kerber, associate professor of chemistry.
- Dr. Craig Lehmann, associate professor of medical technology.
- Dr. Patricia Roos, assistant professor of sociology.
- Antonija Prelec, librarian, Health Sciences Center.
- Helene Volat-Shapiro, senior assistant librarian at the Frank Melville Jr. Memorial Library.
- Judith Burke, counselor in undergraduate admissions.
- Judith Christ, assistant to the chair, Division of Physical Education and Athletics.
- Ann Forkin, director of conferences and special events.

The selection process begins with nomination by departmental colleagues, followed by review by a selection committee within each professional grouping.

SB Students, Financial Aid Staff Prepare for New Filing Requirements

By Sue Risoli

Recent changes in filing requirements for federal financial aid will affect thousands of Stony Brook students and their families as well as University procedures, said John P. Joyce, the University's director of financial aid and student employment.

All students—graduate as well as undergraduate—will be directed to submit a Financial Aid Form (FAF) as a condition of applying for a Guaranteed Student Loan (GSL). Previously, only students applying for Pell Grants and other "need-based" financial aid programs had been required to submit the forms.

"Undergraduates now must receive certification of eligibility—or ineligibility—for the Pell Grant before receiving a Guaranteed Student Loan," said Joyce. "Until now, many students waited until July and then went down to their local banks and applied for a GSL. If they do that this year without first applying for the Pell Grant—even if they think they are not eligible for the Pell Grant—their GSL applications will not be processed in time to help meet expenses for the fall semester."

It is anticipated that the change will affect 5,000 students who have applied or will soon apply for GSLs. That figure translates into \$13 million in federal financial support.

The new requirements stem from regulations, issued recently by the U.S. Department of Education, calling for expanded verification of students' financial information. All FAF forms are processed through the College Scholarship Service in Princeton, NJ where they will now be put through a series of "edit checks"—a comparison of different pieces of information such as income tax paid versus reported income, or savings reported versus interest income. If discrepancies are found, applicants will be flagged for verification. In addition, Joyce said, 30% of all FAFs filed will be randomly selected for verification.

"GSL-only applicants who fail to file an FAF and whose applications are selected for verification will find the processing of their applications seriously delayed," Joyce cautioned. "We will be required to collect additional information from these students, such as income tax returns and other documentation of family and financial status. We will have to ask the whole family to get this information together as quickly as possible since it can take as much as six weeks between the time a completed application leaves Stony Brook to the

Correction

The lecturer and assistant director of field instruction in the School of Social Welfare, who has been appointed to chair the Islip Youth Board's Policies and Projects Committee, was incorrectly identified in the last issue of *Campus Currents*. His name is Carlos Vidal.

point where a GSL check is issued for the student."

Joyce also noted that GSL disbursements will now occur in multiple payments, rather than in a lump sum at the beginning of the academic year as was previously the case. "The Office of Financial Aid and Student Employment will work with the offices of the Bursar and Student Accounts to process checks and settle students' accounts as quickly as possible," he continued, although deferment details "haven't been worked out yet. It will be an administrative nightmare," he continued, "but the quicker we get accurate information from the students, the quicker we can get their checks out."

Joyce observed that the changes had come at a time when students are already in the midst of applying for fall 1986 financial aid. "Students who have already applied without an FAF should submit one as soon as possible if any type of federal assistance is anticipated for the 1986-87 academic year," he said. Joyce also noted that basic eligibility criteria for GSL have not changed but that fewer students will be eligible for Pell Grants under new guidelines. "That, in turn, will lead more people to apply for GSL, which will compound the filing problems," he said.

"We are hoping that students and their families don't translate their overall discouragement with the new filing requirements into any discouragement with Stony Brook," he said. "The worst possible scenario would have a student facing increased paperwork or fearing decreased funding, and then deciding to leave the University."

"We want to work with the students and their families to make sure that doesn't happen," he stressed. "Without scaring anyone, we want to get the message across that procedures will change, and that we will need the help of students to move their paperwork through the system."

There will be a special student forum to explain the new filing procedures on **Tuesday, Apr. 29 at 2:30 p.m. in the Stony Brook Union Auditorium.**

Transplant Day

(continued from page 1)



Intricacies of new law are explained by Felix Rapaport, M.D.

experience to all Long Island hospitals.

Transplant coordinator Steven Hurley and his staff are available 24 hours a day, seven days a week, to assist hospitals in complying with the new law. Services provided include training of designated personnel in such areas as identification of suitable donors. On request, Hurley and staff offer lectures and demonstrations to hospitals. Hurley said the central goal of the Long Island Transplant Program at University Hospital is to recover donor organs that can be used with a minimum of preservation time and a maximum of safety for patients. It is to the advantage of Long Islanders, he said, to encourage hospitals to quickly identify and refer potential donors to transplant

coordinators. He explained that the results obtained with such fresh organs are vastly superior to results with organs transplanted after prolonged preservation. All kidneys and other organs that cannot be used on Long Island, he noted, are transferred to a regional organ procurement agency for utilization in the greater New York region, New York State and other states.

Hurley can be reached by telephone at 124(444 off campus)-1444/1794.

Conference Studies Impact of AIDS

By Merrillie Brown

More than 150 health care professionals and counselors crowded into a lecture hall in the Health Sciences Center recently for a conference on AIDS. They came to attend a series of workshops on the medical, psychological and social impact of the disease, and left with a vivid sense of the human suffering it causes.

"AIDS: A Reasoned Response" started the morning session with a keynote address by Alvin Nowick, M.D., on the social and political aspects of AIDS, as well as scientific data. As president of the American Association of Physicians for Human Rights, Nowick has been in the forefront of AIDS study for several years. He fielded questions from the audience, stating that there are no medical or moral reasons to exclude children with AIDS from school, or to perform mandatory AIDS antibody testing for employment or marriage licenses.

The emotional highpoint of the morning was a panel of four people directly affected by AIDS. They were: a woman who lost her husband to the disease two years after he had received contaminated blood transfusions during open heart surgery; a man who lost his 27-year-old daughter, whose drug addiction caused her to contract the disease; and two gay men who contracted the disease more than a year ago.

During the afternoon, a series of eight workshops were held to address issues like home health care, infection control, health policy and legal issues, and professional ethics and personal values. The conference was sponsored by Stony Brook's School of Allied Health Professions and the Long Island AIDS Project.

LI AIDS Project to Move

The Long Island AIDS Project has outgrown its quarters in Stony Brook's Health Sciences Center and will be moving on May 1.

"We began with just a few volunteers and now have 85 trained volunteers and a staff of seven," explained Jonathan Silin, Director of Education for the project.

Beginning in May, the project will be located on the Nassau-Suffolk County border. The new hotline number will be 385-AIDS.

Physical Therapy Receives Award for Minority Initiatives

The Department of Physical Therapy in the School of Allied Health Professions at Stony Brook's Health Sciences Center will receive this year's Minority Initiatives Award. The award is sponsored by the American Physical Therapy Association (APTA).

The APTA Board of Directors noted the commitment by faculty and students in the Department of Physical Therapy to the goals of recruiting minority students. In addition to their regular duties, for example, faculty members are assigned as mentors and advisors to minority students. Faculty, as well as students already enrolled in the Department, also assume active roles in recruitment efforts by sponsoring and participating in career days and other activities on campus and in the local community.

The Board of Directors also praised activities such as the Upward Bound and Health Careers Opportunity programs at Stony Brook, which bring high school students to the University for discussions, films and hands-on experience with physical therapy. In addition, an annual open house in the School of Allied Health, monthly orientation sessions in the Department of Physical Therapy, and continuing community outreach were cited as being "vital to the success of minority recruitment."

Physical Therapy chairperson Dr. Jay Schleichkorn said the Department's minority recruitment and retention plan "has the full support of other Departments at the University."

The Minority Initiatives Award (a certificate and a \$1,000 check) will be presented to Schleichkorn during a luncheon at the APTA annual conference in June.

Hospital Association Recognizes Stony Brook

Stony Brook's University Hospital has been awarded a Certificate of Recognition by the American Hospital Association (AHA) for active participation in the HAS/MONITREND Program.

HAS/MONITREND, a comparative operational monitoring system offered by the AHA's Hospital Administrative Service Division, assists hospitals in reducing costs while maintaining high quality medical services. University Hospital uses the system to aid management in decision-making for budgeting, staffing and service.

George Seaman, director of management engineering at University Hospital, said, "The MONITREND System has been most useful in operations. It has helped align staffing arrangements and expenditures with other hospitals. It is also useful in monitoring the Hospital's revenue."

University Hospital has been a participant of the HAS/MONITREND Program since 1984. The hospital also receive the Certificate of Recognition last year.

A F F I R M A T I V E

From the EO/AA Office

Affirmative Action Hosts Bi-County Dialogues

On Oct. 31 Stony Brook's Affirmative Action Office hosted the first "Dialogue" for affirmative action officers from Nassau and Suffolk counties. Attendees represented more than 20 organizations from the public sector.

Stony Brook President John H. Marburger, who served as keynote speaker, stressed the value of a close relationship between chief executive officers and their affirmative action staffs. Such an association, he explained, provides a power base for affirmative action officers.

Dialogue participants agreed that an outreach effort was needed to generate

interest and participation from the private sector. From that outreach came a second Dialogue, hosted by the Affirmative Action Office on Mar. 21. This time, attendees represented a more diverse group, including local school districts and private companies.

The agenda for the second Dialogue included discussions of such issues as civil service systems—whether or not they help or hinder minority employment—and the availability of housing on Long Island.

A third Dialogue will be held in Nassau County early in the fall.

Campus Currents Vol. 2, No. 8

Published biweekly during the academic year and monthly during January, June, July and August by the Office of University Affairs. Editorial offices: 121 Central Hall 2760. 246-3542.

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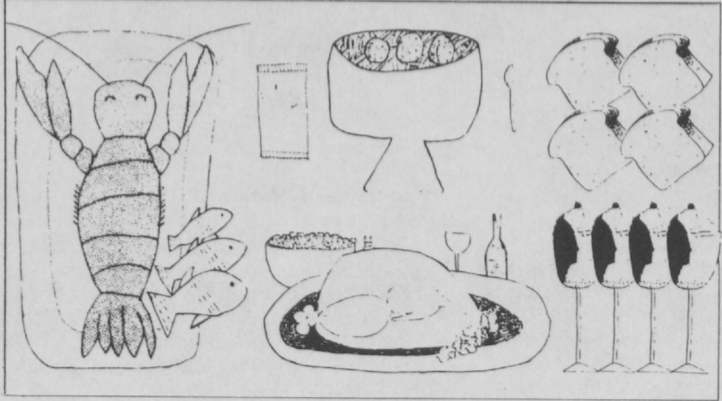
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International Cooks of Stony Brook



Unique Cookbook Helps Support Children's Medical Research

By William Oberst

In a special case in the University's bookstore, resting among hundreds of scholarly volumes authored by Stony Brook faculty and staff, is a cookbook.

A cookbook? This one is unique, both in the chefs who contributed recipes and the motivation behind it.

Buy this spiral-bound volume, and you'll have the satisfaction of knowing that part of its \$10 cost will be donated to the Children's Medical Research Foundation, a nonprofit organization that supports the development of pediatric biomedical research at Stony Brook. You'll also acquire 175 really good recipes.

The idea for a cookbook to benefit research in child health was hatched at a bring-your-own-food holiday party thrown by the Department of Pediatrics more than two years ago. The quality of the food was impressively high. "Everybody just said, 'We should write a cookbook,'" Jacqueline Partin, research associate in clinical pathology and Cookbook Committee chairperson, said.

The scope of the book—titled *International Cooks of Stony Brook*, because of the cosmopolitan makeup of the Pediatric staff—expanded beyond the department, however. Department members sent a few thousand letters soliciting favorite dishes from University faculty and staff, community leaders, political figures, and area business people.

About a hundred chefs are in the book, including President and Mrs.

John H. Marburger, Suffolk County Commissioner of Health David Harris and his wife, Massachusetts Senator and Mrs. Paul E. Tsongas, Patchogue Village Mayor and Mrs. Norman Lechtrecker, Village of Babylon Mayor and Mrs. Gilbert C. Hanse, and Chef Drew Wendelken of the Country House Restaurant.

There's a lot of heart in the book as well. Dr. Elof Carlson, professor of biochemistry, brought out a recipe from his childhood. He explained, in a letter, that he grew up in Brooklyn during the Depression when meat was scarce. Everyone looked forward to meatballs his father occasionally prepared with gravy and boiled potatoes. One of the ingredients reads, "1 can cheap beer."

Members of the Pediatric Department tested the recipes over a period of several months using a rating system that took into account how easy they were to prepare, how clear the instructions were, and, of course, how they tasted.

"Everybody's family ate well during that time," Partin said. She describes most of the recipes as gourmet food, but not hard to make.

You can find copies of the book at the Corner Bookstore in Stony Brook, the Auxiliary Gift Shop at University Hospital, the Barnes & Noble bookstore on Main Campus, and the Pediatric Office in the Health Sciences Center, 11th floor, Room 020. You can also obtain a copy by sending a \$10 check made payable to "Cookbook—CMRF" to Children's Medical Research Foundation, P.O. Draw AC, Stony Brook, NY 11790.

SB to Offer Program in Nonprofit Management

By Merrilie Brown

Starting this fall, a new master of science degree concentration in nonprofit organization management will be offered through Stony Brook's W. Averell Harriman College for Policy Analysis and Public Management.

The program will stress the interdependence of business, government and the nonprofit sector. It will be available to full-time and part-time students at state university tuition rates, and will consist of classroom work, workshop projects and internships in nonprofit organizations.

Courses fall into five clusters: Institutional Values, covering the theory of nonprofits and value dilemmas; Management, which includes administration, marketing and accounting; Decision Sciences, such as economics and data analysis; Problem Solving, with communications, internships and group projects; and elective clusters in arts, social services, health and environmental studies, and human resources.

"This is a very fast-growing field," said Dr. Dennis R. Young, director of the Nonprofit Management Education Project at Harriman College. "There are more than 750,000 nonprofit organizations with over seven million employees, and the field is growing faster than the rest of the economy."

"Many of the large nonprofits receive the greater part of their funding from the government, and much of this support has been withdrawn because of budget cuts. This has brought a new emphasis on the management of these organizations, and our new master's concentration addresses this need."

A management sampler sponsored this spring by Harriman College introduced the new offerings. Four workshops were offered, headed by 16 members of the university faculty from different academic departments. Included in the one-day program were marketing, computer spreadsheets, ethics, analysis, fundraising and proposal writing. The sampler, Young said, was well attended. Several participants expressed interest in the value dilemma course that will be part of the nonprofit concentration curriculum.

W. Averell Harriman College also offers graduate study in government

management and enterprise management. The new nonprofit program will sponsor future events, including a series of colloquia presented by distinguished scholars and practitioners in the nonprofit sector. For information on the program call Young at (24)6-8285.

COMMENT

HSC Contributes to Payroll "Adventure"

To the Editor:

The campus payroll department did an outstanding job in resolving the complications caused by the absence of a new budget on Apr. 2. *Campus Currents'* report of that day's activities leaves the impression that the "happy ending" occurred when check disbursement began at 4:35 p.m. For staff who distribute the checks to the academic departments of the Health Sciences Center (HSC), 4:35 marked the beginning of the adventure.

The personnel of the HSC's accounting office volunteered to stay that evening and organize 700 checks so they would be available for employees at 8:30 a.m. the following morning. When they left later that evening they were tired but satisfied that they had, once again, done their best to deliver paychecks as quickly as possible. Like Henry Robinson, I'm proud—of the HSC staff who also contributed to the happy ending of the payroll adventure.

—Sheila C. Reilly, Assistant Vice President for Health Sciences Administration

Researcher Seeks Better Bladder Cancer Detection

An improvement in cancer detection is the goal of a study of human bladder cancer being done by a professor of medicine and microbiology at the University. Dr. Michael V. Viola, who teaches in Stony Brook's Department of Oncology, has received a \$51,000 grant from the National Cancer Institute to study the activity of cancer-producing genes, called oncogenes, in human bladder cancer. Bladder cancer is a good subject for study because oncogene proteins can be detected in urine samples.

Studies of human tumor viruses reveal that certain genes have changed. The most commonly found transforming genes are the *ras* oncogenes. Viola seeks to determine if the cancer causes the change. The alteration of the *ras* gene structure and the activity of these genes are thought to be important in the development of some human cancers. Viola said, "We believe the results of this study will help determine the prognosis for some cancer patients, and may also be useful in earlier or easier detection of some cancers."

Sociologists Examine Industrial Closings

When a large industrial plant closes, the effects on the surrounding community can be more far-reaching and widespread than may be immediately perceived, say Drs. Michael Schwartz and Frank Romo, sociologists at Stony Brook.

In 1983, Schwartz and his colleagues, funded with \$55,000 from the National Science Foundation, began an investigation of industrial plant closings in New York State. Their findings, Schwartz said, can be generally applied to other areas.

"We discovered that local economies develop around core industries, and these industries attract others that are trading partners," he explained. "If the core industries leave, the entire economy is bound to collapse, because all the smaller industries dependent on it are bound to collapse with it."

UPDATE:

From the University Senate

Executive Committee

Previous issues of *Campus Currents* have described some of the standing committees of the University Senate. Each of these committees has relatively specific area(s) of interest and operate independently. The coordination of committee activity and the interface between the committees and the Senate is accomplished by the Executive Committee.

As stated in the Senate Constitution, "the function of the Executive Committee is to act for and to further the activities of the University Senate. The Executive Committee shall consist of the President, the three Vice-Presidents, the Secretary of the Senate, one professional employee, one undergraduate representative and a total of one representative elected from among the graduate students, Continuing Education students and post-baccalaureate professional students. The Stony Brook senators of the State University of New York Faculty Senate shall choose one of their number to represent them as an ex officio voting member of the Executive Committee. Also, the immediate past President of the University Senate shall serve as an ex officio voting member for one semester following the end of his/her term of office. The President of the University Senate shall chair the Executive Committee. Ordinarily, the Executive Committee shall meet with

the campus President once a month during academic terms."

The Executive Committee normally meets every two weeks during the academic year. The committee deals with the day-to-day affairs of the senate, coordinates committee activities and sets the agenda for the meetings of the Senate. One meeting a month is with all the chairs of the standing committee (forming a group known as the coordinating council) and the other is with either the Provost or the President. Thus, the Executive Committee is able to discuss the results of committee activity directly with the administration.

The Executive Committee receives from the Provost all proposals for new programs and departments. These are then sent to the appropriate standing committees for their consideration. Their reports are then given to the Executive Committee, which decides whether to transmit the proposal to the Senate or to ask for further clarification. Proposals that have recently gone through this process include Management Studies, Cellular and Developmental Biology, and the Decision Sciences Institute. Currently under consideration are the Humanities Institute and the elevation of the Comparative Literature Program to departmental status. In an average year, two to three proposals are presented to the Executive Committee.

The day-to-day affairs of the Senate that are handled by the Executive Committee are varied. They include responding to requests from the administration for suggestions for members of search committees and for recommendations concerning some

administrative appointments. Other tasks are the drafting of proposals for new committees and resolutions, such as one on academic freedom, that are then presented to the Senate for its consideration. While any senator may present an item to the Senate at a meeting, usually most items are given to the Executive Committee first for review. There are items that the Executive Committee feels it can take care of more efficiently than the Senate. In general, the Executive Committee attempts to take care of the smaller things and leave the larger matters of principle up to the Senate as a whole.

In summary, the Executive Committee is a useful channel of communication between the University community and the administration. It communicates directly as well as through the standing committees. It is often difficult to know which standing committee to contact for assistance with a problem. Therefore, when in doubt, contact the Executive Committee and we will see that the issue gets to the right committee.

Current members of the Executive Committee: Benjamin Walcott, Anatomical Sciences, President; Richard Kramer, Music, Secretary; Lawrence Slobodkin, Ecology and Evolution, Past President; Mary Rawlinson, Philosophy, Vice-President Arts and Sciences; Alan Tucker, Applied Math, Vice-President Engineering; Leon Moore, Physiology, Vice-President HSC; Barbara Fletcher, Student Affairs, Professional Employees Board; Jane deYoung, Neurology, SUNY Faculty Senate; Eric Levine, Polity and Kevin Kelly, Graduate Student Organization.

Faculty Authors and Editors Display Prolific Output

If the range of publications produced by a university faculty is any indication of academic health, then Stony Brook is a vibrant institution indeed.

A display of books and journals written and edited in 1985 by the faculty has been set up in the main lobby of the Administration Building. The exhibit brings together 69 books and more than 31 journals. (The faculty is so prolific that three large wall cases and two floor cases are filled.)

A tour through the collection touches nearly every academic discipline. The viewer can find publications on (among other subjects) American garden sculpture, the problems faced by young Jews growing up in Nazi Germany, cardiovascular physiology, and the Spanish short story during the 19th century.

The authors and editors were honored Apr. 15 at a reception sponsored by President John H. Marburger.

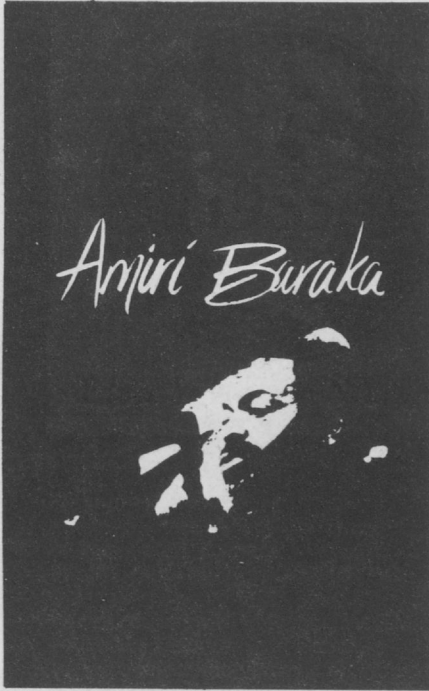
The exhibit is free and open to the public, and will be on display through Commencement Day (May 18.)

Brooks, Martin - Instructor - CED
Editor: *Impact on Instructional Improvement*
Publisher: N.Y.S. Association for Supervision and Curriculum Development

Burner, David - Professor - History
Author: *An American Portrait*
Publisher: Charles Scribner's Sons

Carrasco, Pedro - Professor - Anthropology
Co-author: *American Indigena, La Conquista*
Publisher: Alianza Editorial

Cercone, Karen Rose - Assistant Professor - Earth and Space Sciences
Co-editor: *Ordovician & Silurian Rocks of the Michigan Basin and Its Margins*
Publisher: Michigan Basin Geological Society



Cohn, Peter F. - Professor - Medicine
Editor: *Diagnosis & Therapy of Coronary Artery Disease (2nd Edition)*
Publisher: Martinus Nijhoff

Author: *Clinical Cardiovascular Physiology*
Publisher: W. B. Saunders

Cowan, Ruth Schwartz - Professor - History/Women's Studies
Author: *Sir Francis Galton & the Study of Heredity in the Nineteenth Century*
Publisher: Garland Publishing, Inc.

Deutsch, Lou C. - Assistant Professor - Hispanic Languages
Author: *The Nineteenth Century Spanish Story*
Publisher: Tamesis

Dye, Celeste A. - Professor - Family and Community Health
Author: *Assessment and Intervention in Geropsychiatric Nursing*
Publisher: Grune and Stratton

Elias, Jules M. - Associate Professor - Pathology
Author: *Workbooks in Immunology*
Publisher: Grove Educational Technology

Elling, Barbara - Professor - German and Slavic Languages and Literatures
Editor: *Kafka-Studien*
Publisher: Peter Lang Verlag

Co-editor: *Slavic and East European Arts, Vol. 3, No. 2*
Publisher: Center for Slavic and East European Studies, SUNY at Stony Brook

Farberman, Harvey A. - Associate Professor - Social Welfare
Co-editor: *Foundations of Interpretive Sociology: Original Essays in Symbolic Interaction*
Publisher: JAI Press

Feinbloom, Richard I. - Associate Clinical Professor - Family Medicine
Co-author: *Pregnancy, Birth, and the Early Months*
Publisher: Addison-Wesley Publishing Co., Inc.

Finer, Daniel L. - Assistant Professor - Linguistics
Author: *The Formal Grammar of Switch-Reference*
Publisher: Garland Publishing, Inc.

Friedman, Harold L. - Professor - Chemistry
Author: *A Course in Statistical Mechanics*
Publisher: Prentice-Hall, Inc.

Giordano, Jaime - Associate Professor - Hispanic Languages and Literature
Co-author: *Detras de los árboles*
Publisher: Papeles de Andalican

Author: *Sobre los ángeles*
Publisher: Ediciones de Obsidiana

Editor: *La edad de la nausea: sobre narrativa hispanoamericana contemporánea*
Publisher: Instituto Profesional del Pacifico

Author: *Reunion bajo las misma banderas*
Publisher: Cuadernos LAR

Ginzburg, Lev - Professor - Ecology and Evolution
Author: *Lectures in Theoretical Population Biology*
Publisher: Prentice-Hall, Inc.

Grim, Patrick - Associate Professor - Philosophy
Co-editor: *The Philosopher's Annual, Vol. VI*
Publisher: Ridgeview Publishing Co.

Harris, William J. - Associate Professor - English
Author: *The Poetry and Poetics of Amiri Baraka: The Jazz Aesthetic*
Publisher: University of Missouri Press

Herman, Herbert - Professor - Materials Science and Engineering
Editor: *Journal Materials Science and Engineering*
Publisher: Elsevier

Howard, Dick - Professor - Philosophy
Author: *From Marx to Kant*
Publisher: SUNY Press

Ihde, Don - Professor - Philosophy
Co-editor: *Descriptions*
Publisher: SUNY Press

Co-editor: *Hermeneutics and Deconstruction*
Publisher: SUNY Press

Irvine, Thomas F. - Professor - Mechanical Engineering
Co-editor: *Previews of Heat and Mass Transfer, Volume II, Number 2*
Publisher: Rumford Publishing Co. & Pergamon Press

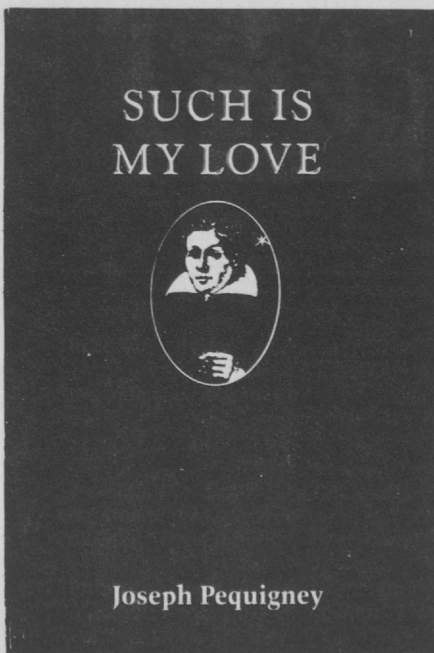
Co-editor: *Advances in Heat Transfer, Volume 17*
Publisher: Academic Press, Inc.

Co-editor: *Heat Transfer - Japanese Research, Volume 14*
Publisher: Scripta Technica, Inc.

Jungers, William L. - Associate Professor - Anatomical Sciences
Editor: *Size and Scaling in Primate Biology*
Publisher: Plenum Press

Kaplan, Allen P. - Professor - Medicine
Editor: *Allergy*
Publisher: Churchill Livingstone

Katz, Joseph - Professor - Human Development and Educational Policy
Editor: *Teaching as Though Students Mattered*
Publisher: Jossey-Bass



Kim, Charles W. - Associate Professor - Microbiology, Medicine
Editor: *Trichinellosis*
Publisher: SUNY Press

Landsman, Ned C. - Associate Professor - History
Author: *Scotland and Its First American Colony, 1683-1765*
Publisher: Princeton University Press

Lawson, H. Blaine, Jr. - Professor - Mathematics
Author: *The Theory of Gauge Fields in Four Dimensions*
Publisher: American Mathematical Society

Editor: *The Journal of Differential Geometry*
Publisher: American Mathematical Society

Editor: *Topology*
Publisher: Pergamon Press

Levine, Fredric M. - Associate Professor - Psychology
Co-author: *Conceptualization in Psychotherapy: The Models Approach*
Publisher: LEA

Levine, Sumner - Professor - Materials Science and Engineering
Editor: *Investing in Venture Capital and Buyouts*
Publisher: Dow Jones - Irwin

Editor: *Journal Socio-Economic Planning Science*
Publisher: Pergamon Press

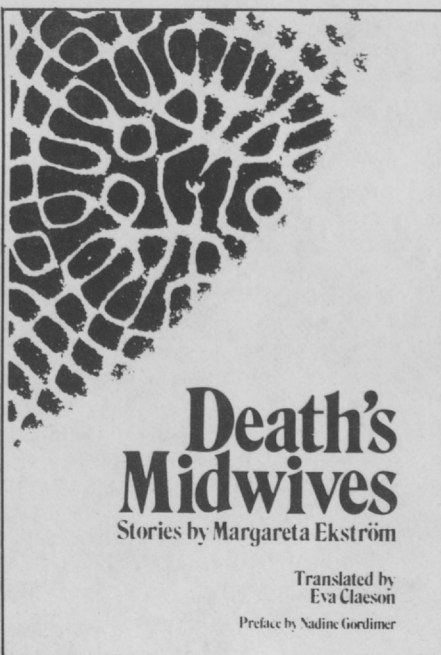
Editor: *Business & Investment Almanac - 1985*
Publisher: Dow Jones

Authors and Editors 1985

Altizer, Thomas - Professor - Religious Studies
Author: *History as Apocalypse*
Publisher: SUNY Press

Altman, Stan - Associate Professor - Harriman College
Editor: *Journal of Urban Analysis of Public Management*
Publisher: Gordon & Breach Science Publishers

Angress, Werner T. - Professor - History
Author: *Generation Zwischen Furcht und Hoffnung Judische Jugend im Dritten Reich*
Publisher: Hans Christians Verlag



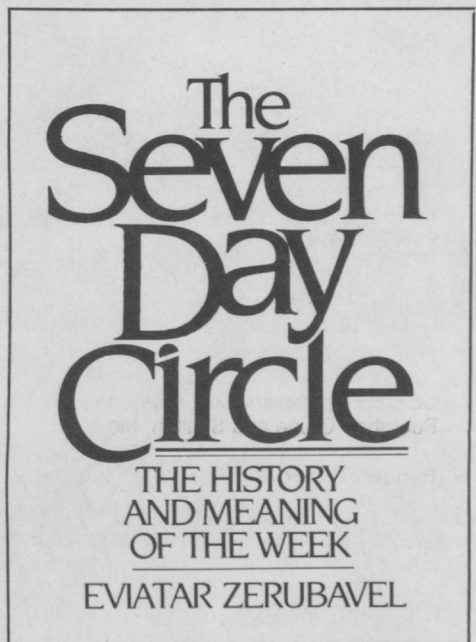
Arjomand, Said - Associate Professor - Sociology
Author: *The Shadow of God and the Hidden Imam*
Publisher: The University of Chicago Press

Editor: *From Nationalism to Revolutionary Islam*
Publisher: Macmillan and SUNY Press

Bethin, Christina Y. - Associate Professor - Germanic and Slavic Languages and Literatures
Co-author: *Reading Polish I*
Publisher: Center for Slavic and East European Studies; The Ohio State University

Bogart, Michele H. - Assistant Professor - Art
Co-author: *Fauns and Fountains: American Garden Sculpture 1890-1930*
Publisher: Parrish Art Museum

Brisbane, Frances Larry - Associate Professor - Social Welfare
Co-editor: *Treatment of Black Alcoholics*
Publisher: Haworth Press



Liao, Thomas T. - Professor - Technology and Society
Co-editor: *Journal of Educational Technology Systems*
Publisher: Baywood Publishing, Inc.

Marker, Gary - Associate Professor - History
Author: *Publishing, Printing, and the Origins of Intellectual Life in Russia 1700-1800*
Publisher: Princeton University Press

Mendell, Lorne M. - Professor - Neurobiology and Behavior
Editor: *Journal of Neurophysiology*
Publisher: American Physiological Society

Meyers, Morton A. - Professor - Radiology
Editor: *Gastrointestinal Radiology*
Publisher: Springer-Verlag

Author: *Dynamic Radiology of the Abdomen: Normal and Pathologic Anatomy*
Publisher: Nankado

Editor: *Iatrogenic Disorders of the Fetus, Infant and Child*
Publisher: Springer-Verlag

Mielke, Andreas - Assistant Professor - Germanic and Slavic Languages and Literatures
Co-editor: *Slavic and East European Arts, Vol. 3, No. 2*
Publisher: Center for Slavic & East European Studies, SUNY at Stony Brook

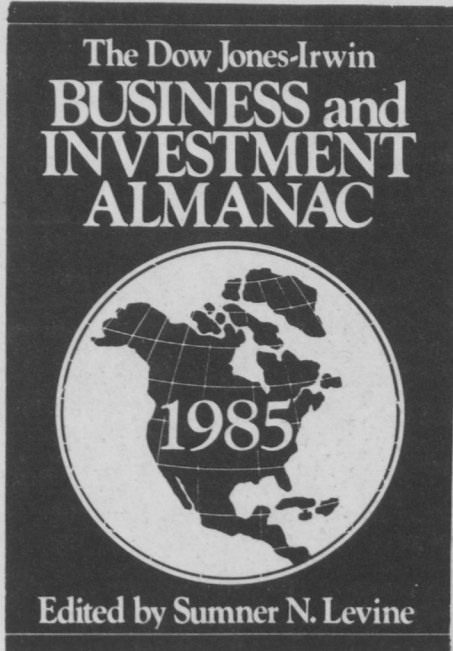
Morris, Lynn King - Adjunct Lecturer - English
Author: *Chaucer's Sources and Analogues*
Publisher: Garland Press

Munich, Adrienne - Assistant Professor - English
Editor: *Browning Institute Studies: An Annual of Victorian Literary and Cultural History, Vol. 13*
Publisher: Browning Institute with Graduate Center, CUNY

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Overton, Ron - Lecturer - English
Author: *Love on the Alexander Hamilton*
Publisher: Hanging Loose Press

Parekh, Jay P. - Professor - Electrical Engineering
Co-editor: *Circuits, Systems, and Signal Processing*
Publisher: Berkhauser



Pequigney, Joseph - Professor - English
Author: *Such is My Love: A Study of Shakespeare's Sonnets*
Publisher: University of Chicago Press

Rabell, Carmen R. - Teaching Assistant - Hispanic Languages and Literature
Author: *Periodismo y ficcion en cronica de una muerte anunciada*
Publisher: Instituto Profesional del Pacifico

Rapaport, Felix T. - Professor - Surgery
Editor: *Transplantation Proceedings*
Publisher: Grune and Stratton

Co-editor: *Transplantation Today, Vol VIII*
Publisher: Grune and Stratton, Inc.

Renner, Robert P. - Professor - Restorative Dentistry
Author: *An Introduction to Dental Anatomy & Esthetics*
Publisher: Quintessence Publishing Co.

Co-editor: *Quintessence of Dental Technology*
Publisher: Quintessence Publishing Co.

Roos, Patricia A. - Assistant Professor - Sociology
Author: *Gender & Work: A Comparative Analysis of Industrial Societies*
Publisher: SUNY Press

Rose, Stephen M. - Professor - Social Welfare
Co-author: *Advocacy & Empowerment: Mental Health Care in the Community*
Publisher: Routledge & Kegan Paul

Rosenthal, Joel T. - Professor - History
Co-editor: *Medieval Prosopography*
Publisher: The Medieval Institute, Western Michigan University

Author: *Anglo-Saxon History: An Annotated Bibliography, 450-1066*
Publisher: A M S

Russell, John R. - Associate Professor - Germanic and Slavic Languages and Literatures
Translator: *The Return of the Individual* by Wolfgang Kraus
Publisher: Peter Lang

Schwartz, Michael - Professor - Sociology
Co-author: *The Power Structure of American Business*
Publisher: University of Chicago Press

Silverman, Hugh - Professor - Philosophy
Co-editor: *Hermeneutics and Deconstruction*
Publisher: SUNY Press

Co-editor: *Descriptions*
Publisher: SUNY Press

Sjöberg, Leif - Professor - Germanic and Slavic Languages and Literatures
Editor: *Death's Midwives*
Publisher: Review Press

Co-translator: *Wild Bouquet* by Harry Martinson
Publisher: BkMk, University of Missouri

Sokoloff, Leon - Professor - Pathology
Editor: *Clinics in Rheumatic Diseases: Osteoarthritis Vol. 11, No. 2*
Publisher: W.B. Saunders

Sprinker, Michael - Associate Professor - English
Co-editor: *The Year Left*
Publisher: Verso Editions

Squier, Susan Merrill - Associate Professor - English
Author: *Virginia Woolf and London: The Sexual Politics of the City*
Publisher: University of North Carolina Press

Torres, Daniel - Teaching Assistant - Hispanic Languages and Literature
Author: *Los versos ineditos del coronel buendia rescatados del discurso narrativo en cien anos de soledad*
Publisher: Instituto Profesional del Pacifico

Tucker, Alan - Professor - Applied Mathematics and Statistics
Author: *A Unified Introduction to Linear Algebra*
Publisher: Macmillan

Watson, Walter - Associate Professor - Philosophy
Author: *The Architectonics of Meaning: Foundations of The New Pluralism*
Publisher: SUNY Press

Weigand, Phil C. - Professor - Anthropology
Editor: *Archaeology of Western & Northwestern Mesoamerica*
Publisher: Praeger

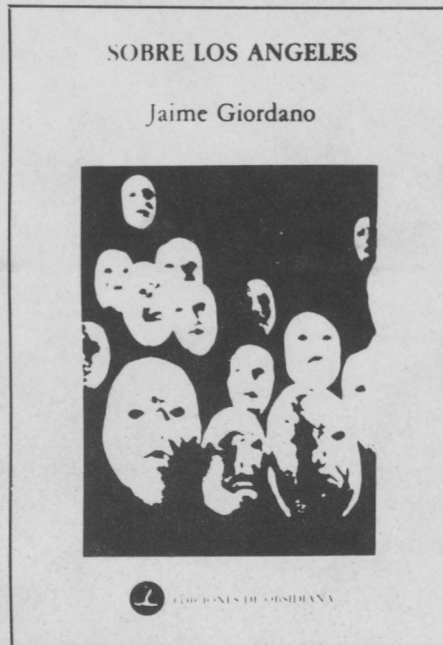
Whitehurst, Grover - Professor - Psychology
Editor: *Developmental Review*
Publisher: Academic Press, Inc.

Editor: *Annals of Child Development, Vol. 2*
Publisher: JAI Press, Inc.

Young, Dennis R. - Professor - Harriman College
Co-author: *Subsidizing Inefficiency*
Publisher: Praeger

Author: *Casebook of Management for Nonprofit Organizations*
Publisher: Haworth Press

Zemanian, Armen H. - Professor - Electrical Engineering
Co-editor: *Circuits, Systems, and Signal Processing*
Publisher: Birhauser-Boston, Inc.



Zerubavel, Evitar - Professor - Sociology
Author: *Hidden Rhythms (Schedules & Calendars-Social Life) (in Italian)*
Publisher: il Molino

Co-editor: *The Seven Day Circle: The History and Meaning of the Week*
Publisher: The Free Press (Macmillan)

Zimbaro, Rose - Professor - English
Co-author: *Across the Curriculum: Thinking, Reading, Writing*
Publisher: Longman, Inc.

Suggestions for Supervisors

Poor work deserves constructive criticism. The goal of constructive criticism should be to tell employees how to improve the efforts so that the job gets done more effectively. It should not provide an outlet for supervisors' anger, frustration and dissatisfaction. Nobody likes being bawled out, and especially being bawled out in public. A person who has been harshly criticized can harbor resentment for months, which can easily affect his or her attitude about work. Criticism is rarely easy to take, but if it is given directly and with consideration for the feelings of the employees, the likelihood of their using it to improve job performance increases.

Supervisors, inviting continued growth in employees, can encourage people to improve themselves. Education does not end with the high school or trade school diploma, with the Ph.D., or with the medical or law degree. Education continues throughout one's lifetime. One takes courses, participates in discussions, reads books. The wise

supervisor stimulates an employee's inherent desire to learn and, in turn, is willing to learn from others. Recognizing that the people who do the job daily might know ways to make the job more pleasant or more efficient, the supervisor will encourage suggestions from employees and will be willing to take action on those suggestions that seem apt.

Finally, *people should work in a safe and healthy environment.* Not everyone will pay attention to the lamp cord people might trip on, the poor arrangement of file cabinets that invites knee-bumping, the too-heavy furniture that needs to be moved or the poorly lighted work table—yet these features of the work environment are the responsibility of the supervisor.

Van Dersal reminds us that supervisors frequently do not realize their effects on the daily well-being, the careers, and indeed, the lives of the people they supervise: "An approach based on prejudice, a decision based on ignorance, a careless remark based on indifference, can easily lead to injustice and, in certain settings, disaster."

Part two of a two-part series.

Personnelized Job Opportunities

Main Campus

Status and Title	Location	Salary
R-Lab Helper	Oral Bio. and Path.	\$ 9,880
R-Lab Helper	Neurobio. and Beh.	9,880 (pro-rated)
*S-Typist	Res. Physical Plant	11,411
R-DEMO	CPMP/Radiation Oncol.	11,306
*S-Account Clerk	G.I.S. Accounting	12,522
R-Acct. Clerk		
(P/T—5 pos. avail.)	CPMP	11,866 (pro-rated)
S-Maintenance Helper	Trans. and Fleet Svc.	13,247
S-Maintenance Helper	Public Safety	13,247
S-Laborer		
(P/T—6 pos. avail.)	Physical Plant (M.C.)	13,247 (pro-rated)
*S-Sr. Clerk	Accounts Payable	14,003
R-Sr. Clerk		
(4 pos. avail.)	CPMP	13,254
R-Sr. Clerk		
(P/T—5 pos. avail.)	CPMP	13,254 (pro-rated)
S-Maintenance Asst.	Res. Physical Plant	14,819
R-Sr. Acct. Clerk	CPMP	14,811
*S-Sr. Steno	Records	15,670
R-Lab Tech.	Med. Oncol.	14,811
R-Lab Tech.	Oral Biol. and Path.	14,811
*S-Stat. Engr.		
(4 pos. avail.)	Physical Plant M.C.	18,615
*S-C.P.S.O. II	Public Safety	18,800
R-NTP-Tech. Spec.	Med./Inf. Dis.	15K-17K
S-NTP-Asst./Fac. Prog. Coord.	Physical Plant	15K-17K
R-NTP-Asst. for Cont'd Educ.	SIDS Center	15K-20K
S-NTP-Counselor	Sayville Project/SSW	14,500
S-NTP-Counselor	Sayville Project/SSW	14,500
R-NTP-Editorial Asst.	Medicine/Endocrinology	13K-24K
S-F-Asst. Prof.	Anthropology	18K-20K

For more information on main campus jobs, visit Human Resources, Room 390, Administration Building.

University Hospital

Status and Title	Location	Salary
*Office Machine Operator		
(Microfilm)	General Services	\$11,411
*Mail and Supply Clerk	General Services	11,411
*Lab Worker	Specimen Receiving	11,931
*Lab Worker	Dental Care Center	11,931
Cleaner (4)	Housekeeping	11,931
*Account Clerk (11)	U.H. Patient Accounts	12,522
*Hosp. Patient Serv. Clerk I	U.H. Admitting	14,003
*Nursing Station Clerk	Ambulatory Care	14,003
*Sr. Account Clerk (3)	U.H. Patient Accounts	15,670
*Medical Lab Tech. I	Lab./Hematology	15,670
*Medical Lab Tech. II	Lab./Chemistry	18,615
*Nursing Station Clerk	NICU	14,003
Lab. Aide	Lab./Histology	12,522
Lab. Animal Caretaker	DLAR	12,522
*Lab. Worker	Lab./Chemistry	11,931
*Acc. Clerk	Home Dialysis Billing	12,522
*Stenographer	Anatomical Sciences	12,522
*Nurse I (Repost)	University Health Service	20,006
*Clinical Physician I (Repost)	Coram Health Center	58,139

For more information on University Hospital jobs, visit Human Resources, Room 106, third floor, Health Sciences Center.

KEY

- S—Must meet minimum qualifications as specified by the NYS Dept. of Civil Service
- *S—Requires NYS Civil Service Exam in addition to meeting minimum qualifications as specified by NYS Dept. of Civil Service
- R—Must meet minimum qualifications as specified by the Research Foundation
- NTP—Non-teaching professional
- F—Faculty

For Civil Service Test Announcements, visit the Human Resources Department, main campus, or University Hospital.

"Personnelized" lists employment opportunities as a service to the Stony Brook community. Faculty and professional positions are posted for 30 days. Classified positions are posted for ten days. "Personnelized" cannot guarantee the availability of any position.

Researchers Ponder Mysteries of the Earth and Heavens

By Alvin F. Oickle and Diane Greenberg

Perhaps as never before, America's attention has been drawn the past few months to the wonders of the sky and the mysteries of the earth below. Major earthquakes in Mexico City and Colombia have made us ponder nature's overwhelming destructive power, just as Challenger's failed space mission has tragically brought to our attention the fragility of our best scientific efforts. But still, we have triumphs. In just two weeks this winter, the Voyager mission discovered more about the distant planet Uranus than the scientific community had learned about it in the previous two centuries. Scientists can duplicate conditions deep within the earth, enabling them to observe how minerals react to temperatures as high as 1200 degrees centigrade and pressures as high as 150,000 atmospheres. Experiments

under these conditions may help scientists understand how earthquakes start.

Participating in much of the international scientific community's work above and below the earth are the scientists in Stony Brook's Department of Earth and Space Sciences. Last year, ESS celebrated its 20th anniversary. Only a few years after the department's 1965 founding (in the infancy of the United States space program), its researchers were involved in analysis of soil and rock samples returned by astronauts from the Moon. And the pace has hardly slackened. Dr. Gilbert N. Hanson, department chairperson, notes that ESS has become an internationally recognized center of laboratory-oriented basic research with an unusually wide range of experimental equipment.

"These are exciting times for our department," Hanson said. "We have an outstanding staff of 25 full-time

faculty who are working in areas as diverse as tracking Halley's Comet [see *Campus Currents*, Nov. 25] to investigating the origin and evolution of the earth's continental crust."

Sixteen of the faculty are in geosciences and nine in astronomy. About 60 graduate students are enrolled in the Ph.D. and M.S. programs. About three-quarters of these students are working in the geosciences—mineralogy, petrology, geochemistry, geophysics, sedimentary geology, structural geology and paleontology. On the undergraduate level, Hanson said, 75 students this year have declared majors in the department, and as many as 800 students take undergraduate courses in the program each semester.

Last year the department received grants totalling \$1.9 million from sources as diverse as the National Science Foundation, the National Aeronautics and Space Administration,

the U.S. Department of Energy, the American Chemical Society and private industry. Oil companies, Hanson noted, have been particularly interested in funding research that he and associate professor William Meyers are doing on the origin of dolomites, which are major sources of petroleum.

The emphasis of the department is on research, both for its staff and its graduate students. "Course work for graduate students is minimal. Their research will help them to learn on their own," Hanson said. "As for research, we are one of the best experimental facilities in the world. For instance, we have high-pressure laboratories as well as low-pressure labs, and labs for squeezing rocks. [See *Campus Currents*, Nov. 25]. We have microprobes and an electron microscope."

Here's a sampling of research faculty activity in the department:

Synchrotron Light Aids Study of Minerals Under Stress

Dr. Charles T. Prewitt, professor of Earth Science and Material Science at Stony Brook, is using the National Synchrotron Light Source to solve previously impossible-to-answer questions in geophysics and geochemistry. The results of his research may have far-reaching effects in earth sciences and in industry.

Working at the Light Source beam assigned to the SUNY system's scientists at Brookhaven National Laboratory, less than a half-hour from the Stony Brook campus, Prewitt is analyzing how minerals behave under temperatures and pressures deep within the earth. For example, by placing a sample of garnet or quartz in a diamond anvil cell, and utilizing synchrotron X-ray diffraction, he can examine a mineral under pressures as high as several hundred kilobars (which is several hundred thousand times our atmospheric pressure), and in temperatures as high as several thousand degrees centigrade.

"We actually use the synchrotron as a large X-ray generator," Dr. Prewitt said. "It produces high intensity X-rays at wave lengths we can select. The diffraction patterns we obtain can then be used to determine the changes in structure of the minerals we study."

Prewitt's interest in minerals is primarily theoretical, he said, but on a practical level his research might lead to a better understanding of earthquake mechanisms. In addition, if certain changes are made in the structures of minerals, they can be utilized in productive ways, according to Prewitt. For instance, useful electronic devices can be made that have the garnet structure. "Many minerals have industrial applications," he said.

Prewitt is also studying rare earth perovskites—materials used as catalysts in the reaction of organic gases and liquids. "By looking at the diffraction patterns produced by the synchrotron, we can begin to understand which materials make the best catalysts. The way the atoms and molecules are spaced is important in determining how effective a catalyst will be," he explained.

Prewitt said his research on perovskites is important to industry, since effective catalysts are essential for many chemical processes, such as automotive exhaust control and hydrogen production in electrochemical cells.



Charles T. Prewitt

Voyager Yields Wealth of Data On the Distant Planet Uranus

Until a few months ago, the planet Uranus had remained a mystery to scientists since being discovered by English astronomer William Herschel in 1781. It cannot be seen with the naked eye and, even with telescopes, it is difficult to study.

But all that has changed. Dr. Tobias Owen, professor of astronomy at Stony Brook and a member of the imaging science team of the recently-completed Voyager mission to Uranus, remarked, "We have learned more about Uranus in two weeks than we had in two centuries."

Owen, who joined Stony Brook's Earth and Space Sciences faculty in 1970, noted the difficulties in planning years ahead when Voyager was launched in 1972 on a tour of the planets Jupiter, Saturn, Uranus and Neptune. He said, "Because of the way the planets were then lined up, sending the spacecraft up at that time was like making a cosmic billiard shot. Voyager's velocity was increased due to the assistance from each planet's gravity as it passed by."

Owen helped design a camera—actually a small telescope with a six-inch telephoto lens—that took black-and-white photos later reconstructed in

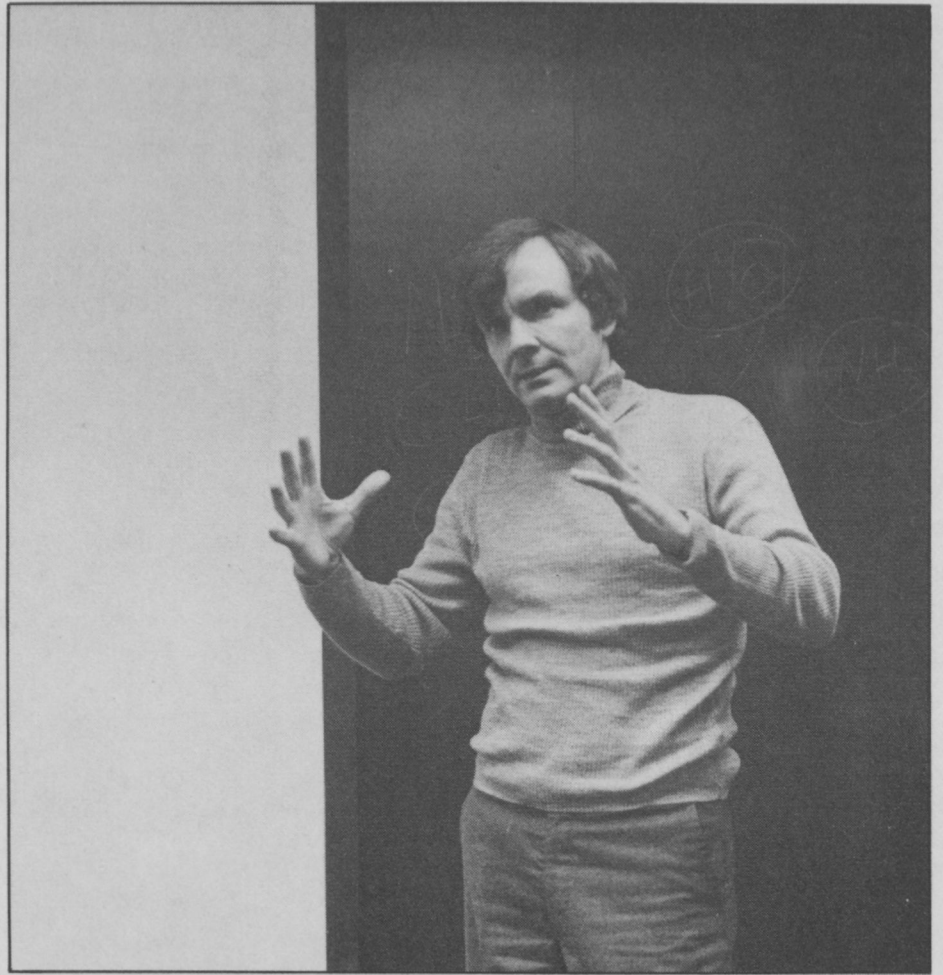
color. Scientists discovered from Voyager photos taken in January and February that Uranus has 15 moons, not the five previously counted; that it has two shepherding satellites around one of its coal-black rings, and that it has a magnetic field that is tipped on its axis by 55 degrees, relative to the planet's axis of rotation.

Owen noted that the tragic explosion of the spacecraft Challenger will cause a delay in the next NASA-sponsored mission in which he will take part. "We were supposed to send the spacecraft Galileo to explore Jupiter in May," he said, "but we can't launch it until a thorough investigation finds the cause of the explosion."

Exploration of space is necessary, he believes, if we are to understand the mystery of how the solar system began. "If we think it is important to know how the solar system formed and how life began, we must study the entire solar system," he said.

What of the practical value of studying the planets? Owen responded, "That is the wrong question. No one asks about the practical value of Mozart's music. Space exploration tests our intelligence and our spirit."

"It stretches the boundaries of what human beings can do."



Tobias Owen

Challenger Disaster Means Setback for Space Telescope Team

Like other astronomers, Dr. John J. Caldwell suffered an extra dimension of loss when the Challenger space shuttle exploded soon after liftoff in Florida this winter. He shared with all Americans the mourning that came with the deaths of the seven astronauts, and the shock of accepting an inevitable catastrophe in space exploration and the immediate suspension of all space flights.

For him and his colleagues at work for nearly a decade on the Hubble Space Telescope (HST), the excitement and tension building up for their own launch on Oct. 27 was suddenly put on hold for an unknown period of time.

Caldwell, an associate professor in the Department of Earth and Space Sciences, was chosen by the U.S. government in 1977 to serve on a team of 100 eminent scientists to design and

oversee construction of the world's most precise optical instrument and to plan its use from a space station 300 miles above Earth. An expert in planetary science, Caldwell is one of four interdisciplinary scientists serving with a working group of 18. "We form the senior advisory body for questions of scientific policy," he explained.

The October date had been selected just prior to the Challenger disaster. "The mission has not yet been rescheduled," Caldwell said, "primarily because no one knows how long it will take to put the pieces of the shuttle program back together. Complicating this uncertainty are two factors. One, the HST will rely on a pair of tracking and data relay satellites (TDRS) for communications with the ground. One

such satellite is now on station but the second was destroyed with the Challenger. The HST could operate with only one TDRS, but only at very low efficiency. The second complication is that the HST requires optimal performance from the shuttle to get it to the best operational altitude. Only two of the four shuttles, Challenger and Atlantis, had the necessary capability. Now only one of the three does, and there will surely be questions of how hard to push the system in the near future."

Caldwell noted that other science missions have suffered more precise fates, citing ASTRO-1's Mar. 6 launch synchronized with Comet Halley and the Galileo mission to probe Jupiter's atmosphere, delayed at least 13 months. Dr. Tobias Owen of Stony

Brook's Earth and Space Sciences is an interdisciplinary scientist with the Jupiter mission and Dr. Barry Lutz, a former Stony Brook senior research associate, is with the ASTRO-1 mission. He is now with the Lowell Observatory in Flagstaff, Ariz.

The \$1.2 billion space telescope, named for Edwin Hubble, a 1920s space pioneer, will be "one of the most expensive payloads to date," Caldwell said. "Prior to this, it wouldn't be worth putting that kind of effort into construction of a telescope to be used on Earth. Because of the atmosphere, no matter how clear it may seem, there is always some distortion. It wouldn't make sense to have such a sophisticated instrument under those conditions."

Seismic Station on South Shore Will Help Pinpoint L.I. Quakes

On an average of at least every 30 seconds, an earthquake occurs somewhere in the world. Dr. Clifford Thurber knows he can't track all of them but he's hoping to step up his work with rumbles in the Northeastern United States during the next year.

To the Earth and Space Sciences seismology equipment is coming the final units necessary for accurate earthquake location on Long Island—the precise pinpointing of earth movement in a manner similar to triangulation. In a third-floor laboratory in the ESS Building at Stony Brook, Thurber and his colleagues have been monitoring seismic records radioed from automatic remote equipment in two locations about 60 miles apart on Long Island. One is 40 miles east of the University campus, on Shelter Island, between the North Fork and South Fork that extend out into the Atlantic Ocean. The other is 20 miles west on the North Shore. This summer, Thurber plans to have a third station installed in a public park along Long Island's South Shore. "We're not anxious to let people know

where this unattended facility is located," he said, smiling.

Like other seismologists, Cliff Thurber has been following the recent outbreak of earth movements in the vicinity of the Ramapo Fault, which is located in northern New Jersey and runs into New York's Rockland County northwest of Manhattan. And he ruefully enjoys the paradox that came last fall when he missed being in New York for a quake in Westchester County that registered around 4.0 on the Richter scale because... he was attending a gathering of seismologists in Tennessee.

And, like other geophysicists, his interests include areas other than seismology, in his case volcanoes and planetary geophysics. The volcano research concerns the growth and evolution of Kilauea volcano in Hawaii, and the forces that control its eruptive behavior. His interests in planetary geophysics focus on the tectonic history of the Moon, the inner planets and the satellites of the outer planets.

Faculty Committee Seeking Honorary Degree Nominees

The Faculty Committee on Honorary Degrees is seeking suggestions from the University community for 1987 honorary degree recipients.

Basic criteria as established by the State University of New York Board of Trustees are: 1) the nominee must be distinguished and someone whose eminence is widely recognized by the leaders in that person's field, and 2) nominees may not be members of the Board of Trustees or the teaching or administrative staffs of the University system, current holders of New York elective public office or active candidates for elective public office.

Nominations should include a curriculum vitae, a description of the individual's accomplishments and a statement summarizing why the person would be appropriate for an honorary degree from Stony Brook. Completed nominations may be forwarded to Paul Chase in the Office of the President, and should be received by Monday, May 5.

This year's honorary degree recipients will be physicist Richard Garwin, neurobiologist Eric Kandel and political scientist William Riker.

The committee consists of the following faculty members: Thomas Altizer, Religious Studies; Lorne M.

Mendell, Neurobiology and Behavior; K. Daniel O'Leary, Psychology; Robert Olsen, Medicine and Pharmacology; Michal Simon, Earth and Space Sciences and John Truxal, Technology and Society.

Off-Campus Housing Sponsors Workshop

The Off-Campus Housing Service will provide a workshop, sponsored by the Graduate Student Organization, to inform graduate students of the services it offers.

The workshop will be held in the Graduate Student Lounge on Tuesday, Apr. 29 1986 at 7:30 p.m. Topics to be discussed will be geared specifically to the off-campus housing needs of graduate students, including: general legal advice, tenant-landlord relations, energy conservation, utility costs, real estate procedures, community involvement, local transportation, legal rights and responsibilities.

Refreshments will be served. For more information, contact the Off-Campus Housing Service at (24)6-5979.

The Service also offers a roommate referral for undergraduate and graduate students, as well as faculty and staff. Those interested can register by listing housing needs and references. For more information, call (24)6-5679.

EVENTS

Next events deadline is Friday, May 2 at noon for the May 12 issue of *Campus Currents*.

• **MONDAY, APR. 28-MONDAY, MAY 11**
EXHIBITION: Ceramics—a student exhibition, Stony Brook Union Gallery, Mondays through Fridays. Call the Crafts Center at (24)6-3657 for Gallery hours.

• **MONDAY, APR. 28-THURSDAY, MAY 1**
PASSOVER: Kosher l'Pesach meals will be available on campus. Only those with advance tickets will be served. For further information, call the Hillel Office at (24)6-6842.

• **MONDAY, APR. 28**
RECITAL: Trombonist Kelly Young in a Graduate Student Doctoral Recital, Fine Arts Center Recital Hall, 12 noon. Free and open to the public.

DISCUSSION: "Active Teaching and Active Learning;" Frank Melville, Jr. Memorial Library Administrative Conference Room (W1503); 12:45-2 p.m. Part of the Topics in Teaching discussion series.

CONCERT: The Stony Brook Camerata directed by Edward Maclary performing choral masterworks by Handel, Brahms (Vytas Baksys, piano soloist), and Barber (Paula Zerkle, conductor). Fine Arts Center Recital Hall, 8 p.m. Free and open to the public.

• **TUESDAY, APR. 29**
RECITAL: Pianist Evelyne Lust in a Graduate Student Doctoral Recital performing works by Beethoven, Bartok, Liszt, and Chopin. Fine Arts Center Recital Hall, 1 p.m. Free and open to the public.

SEMINAR: "The Ras-Related YPT1 Protein in Yeast: A GTP Binding Protein Involved in Microtubule Function;" Dr. Dieter Gallwitz, Institute for Physiological Chemistry, Marburg, West Germany; Life Sciences Building Room 038; 2 p.m. Hosted by Dr. Rolf Sternglanz. Free and open to the public.

CONCERT: Graduate students in the Department of Music performing chamber works. Fine Arts Center Recital Hall, 8 p.m. Free and open to the public.

FILM: *The Flavor of Green Tea Over Rice*, Stony Brook Union Auditorium, 7 and 9 p.m. Tickets are .50 with SUSB I.D., \$1 without; available at the Stony Brook Union Box Office or at the door.

• **WEDNESDAY, APR. 30-SATURDAY, MAY 3**
THEATRE: *That Scoundrel Scapin*, Moliere's comedy performed at the Fannie Brice Theatre, 8 p.m. each night. Tickets available in advance at

the Stony Brook Union Box Office for .50 or at the door for \$1. For more information, call (24)6-8688.

• **WEDNESDAY, APR. 30**
LECTURE: (originally scheduled for Apr. 23) Eighth Annual Lecture in Health and Public Affairs by David N. Sundwall, M.D., director of the Health and Human Resources staff of the U.S. Senate Committee on Health and Human Resources. HSC Level 2, Lecture Hall 2, 4 p.m. For more information, call the Office of the Vice President for Health Sciences at 124-(444 off campus)-2101.

RECITAL: Pianist Kayo Iwama in a Graduate Student Masters Recital performing works by Bach, Schubert, Chopin, and others. Fine Arts Center Recital Hall, 8 p.m. Free and open to the public.

CONCERT: The University Concert Band directed by Jack Kreiselman performing works by Beethoven, Brahms, and others. Fine Arts Center Main Stage. For ticket information, call the Fine Arts Center Box Office at (24)6-5678.

SEMINAR: "Regulation of CA²⁺ Current by ACH, Isoprenaline and Cyclic Nucleotides in Frog Heart Cells;" Dr. Rodolphe Fischmeister, Centre Universite Paris; Basic Health Sciences Tower Level 5; Room 145; 4 p.m.

• **THURSDAY, MAY 1**
COLLOQUIUM: "Convection and Crystallization in Magmas;" Dr. Bruce Marsh, Johns Hopkins University; Earth and Space Sciences Building Room 123, 4 p.m. Free and open to the public.

SEMINAR: "Efficient Meiotic Segregation of Autonomous Plasmids in Transgenic Mice;" Dr. Minoo Rassoulzadegan, Centre de Biochimie, Universite de Nice, Nice, France; Life Sciences Building Room 038, 4 p.m. Hosted by Dr. Kenneth Marcu. Free and open to the public.

FILM (DOUBLE FEATURE): *Paths of Glory* (7 p.m.) and *Patton* (9 p.m.) Stony Brook Union Auditorium. Admission is separate for each film at .50 with SUSB I.D., \$1 without; tickets available at the Stony Brook Union Box Office or at the door.

• **FRIDAY, MAY 2-SATURDAY, MAY 3**
FILM: *Pee Wee's Big Adventure*; Javits Lecture Center Room 100; 7, 9:30 and 12 midnight. Tickets are .50 with SUSB I.D., \$1 without; available at the Stony Brook Union Box Office or at the door.

• **FRIDAY, MAY 2**
MEETING: United University Professions (general meeting). Agenda will include President's report and discussion of the proposed contract. Stony Brook Union Room 231, 9 a.m.

• **SATURDAY, MAY 3-SATURDAY, MAY 17**
EXHIBITION: Senior Show '86, Fine Arts Center Art Gallery, Tuesdays through Saturdays 12-4 p.m. Free and open to the public.

• **SATURDAY, MAY 3**
CONCERT: The Stony Brook Symphony Orchestra conducted by David Lawton performing works by Wagner, Brahms and a concerto, to be announced, with the winner of the 1985-1986 DMA concerto competition as soloist. Fine Arts Center Main Stage, 8 p.m. Tickets \$5. For more information, call the Fine Arts Center Box Office at (24)6-5678.

• **MONDAY, MAY 5-WEDNESDAY, MAY 7**
THEATRE: *The Fruit in the Tree*, written and directed by Andreas Mielke. Presented by the Welldigger Contemporary Theatre. Calderone Theatre, South Campus, 8:15 p.m. each night. Free and open to the public. (There is a free bus to the Calderone Theatre that leaves the Stony Brook Union at 7:50 p.m.)

• **MONDAY, MAY 5**
MEETING: University Senate, Javits Lecture Center Room 109, 3:30 p.m.

• **TUESDAY, MAY 6**
FILM: *Once Upon a Time in the West*, Stony Brook Union Auditorium, 7 and 10 p.m. Tickets are .50 with SUSB I.D., \$1 without; available at the Stony Brook Union Box Office or at the door.

• **WEDNESDAY, MAY 7**
FILM: *The White Rose*, Stony Brook Union Auditorium, 8 p.m. Free and open to the public.

• **THURSDAY, MAY 8**
MASS: Ascension Thursday, Old Chemistry Building, 12 noon and 7 p.m.

• **FRIDAY, MAY 9-SATURDAY, MAY 10**
FILM: *Rocky IV*; Javits Lecture Center Room 100; 7, 9:30 and 12 midnight. Tickets .50 with SUSB I.D., \$1 without; available at the Stony Brook Union Box Office or at the door.

• **FRIDAY, MAY 9**
SEMINAR: "Building Protein Databases for Analysis of Growth Control;" Dr. James Garrells, senior staff scientist, Cold Spring Harbor Laboratory; Life Sciences Building Room 038, 12 noon. Free and open to the public.

• **SATURDAY, MAY 10**
CABARET: Dancing and entertainment, Stony Brook Union Ballroom, 9 p.m.-2 a.m. Tickets \$5 in advance, \$6 at the door. For more information, call Rosa Caparros at (24)6-5685.

• **SUNDAY, MAY 11-THURSDAY, MAY 15**
FILMS, COFFEE: Enjoy coffee and confections while viewing film classics, Fannie Brice Theatre, Stage XII, 8 p.m. Free and open to the public.

• **SUNDAY, MAY 11**
RECITAL: Soprano Yoko Ojima performing works by Bellini, Wilson, Verdi and Puccini. Fine Arts Center Recital Hall, 3 p.m. Free and open to the public.

Intramural Plans in Full Swing

Plans are underway to organize summer intramural sports activities for University faculty, staff and students.

Team sports will be softball and beach volleyball (both men and women on a team). There will be tournaments in tennis, racquetball, outdoor paddleball and badminton. "Fun" runs also will be scheduled.

Also offered will be an aerobics/floor exercise class, to be held three days a week.

Those interested in forming teams or in participating in individual activities should call Patti Bostic, director of intramurals and recreational activities, at (24)6-6818, by Friday, May 9. For more information on the aerobics class, call Andrea Brooks Young at (24)6-7771.

Astronomer to Lecture on Hubble Telescope

A telescope functioning in space will be the subject of the next Astronomy Open House Night lecture at Stony Brook.

Dr. A. Rex Rivolo, a visiting faculty member in the Department of Earth and Space Sciences, will speak on the Hubble space telescope on Friday, May 2, at 8 p.m. in ESS Lecture Hall 001. The event is free and open to the public. Now scheduled for December 1987, the launch was postponed from this summer after the explosion of the shuttle Challenger (see page 7.)

Unrestricted by the earth's atmosphere, the orbiting national observatory is expected to expand the view of the universe by a factor of seven. Rivolo will present a description of the spacecraft and its science instruments and discuss the motivation for spaceborne optical astronomy. He came to Stony Brook this year after three years postdoctoral study at the Space Telescope Science Institute at Johns Hopkins University.

Following the talk, weather permitting, the public will be able to use the University small telescopes. Both the ESS Library and the Museum of Long Island Natural Sciences will be open without charge.

This lecture will conclude the 1985-86 astronomy series. The 1986-87 series will open Oct. 3 with a talk, "Death of the Dinosaurs," by Drs. Robert Warasila and Peter Bretsky.

SB Physicians to Answer Allergy Questions on TV

Allergy sufferers have a friend at Stony Brook—and help is no farther away than the nearest telephone.

University Hospital physicians in the Department of Medicine, Division of Allergy, Immunology and Rheumatology, will answer telephone questions from the public as part of Lifetime Cable Network's "Stop the Sneeze," an allergy sufferers' "Informathon" airing on cable stations in Nassau and Suffolk counties on Tuesday, Apr. 29, from 9 p.m. to 1 a.m. For help at University Hospital during those hours, the number to call with allergy questions is 124(444 off campus)-2856. Professional staff will be on call throughout the Informathon.

The Allergy Informathon gives America's 35 million allergy sufferers the opportunity to learn the latest news about diagnosis and treatment of allergies and allergy-related disorders. The Informathon is being produced in cooperation with the Asthma and Allergy Foundation of America, the American College of Allergists and the National Institute of Allergy and Infectious Disease.

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Center Offers Workshop for Mothers Seeking Anger Control

Most parents will acknowledge having felt "fit to be tied" in trying to control their anger at their four-year and five-year old children. Now a free workshop is being offered as part of a study on the relationships of mothers and children by the Psychological Center at Stony Brook. The workshop will take place on Thursday, May 1, from 6 to 9 p.m. at the Psychological Center. For mothers, the workshop will cover methods for managing young children without losing control because of anger. The mothers will be asked to respond to an anonymous questionnaire about child rearing and interpersonal relations. For children, the center will provide care and conduct a 20-minute story game to help determine how children go about getting toys from other children. Dr. Alan O. Ross of the Department of Psychology faculty said that strict confidentiality will be preserved. For information or registration, interested mothers may leave a message with a suggested callback time for Paul Whitaker at (24)6-5970. Other times may be arranged if the workshop hours are inconvenient.



Actors (left to right): Ken Washington, Karen Weber, Michael Peragine and David Rechold rehearse for Apr. 30-May 3 performance of *The Scoundrel Scapin* at Fannie Brice Theatre.