

Stony Brook PEOPLE

SB researchers discover increase in support

Research activity at Stony Brook is in high gear, reaching a record level in fiscal '81. External research funding increased by more than \$6 million—double the annual rate of increase the past five years—reaching a total of \$31.2 million. This achievement now makes Stony Brook the top SUNY institution for sponsored research activities.

"Competition for funds is tough. Our success rate is impressively high because of the quality of proposals by our faculty, which puts Stony Brook in an excellent competitive position in seeking funds," said Dr. Robert Schneider, associate vice provost for research. "Our faculty is also showing vigor in making applications and seeking new sources of funding for research," he added.

Hundreds of faculty, graduate students and research staff are working on 642 research projects in the major disciplines—biological and health sciences, social and behavioral sciences, physical sciences and math and humanities and fine arts.

Dr. Schneider said "The past year's research funding places Stony Brook in the notable position of being one of the fastest growing public comprehensive university centers in the country in research and development activity."

The University is among the top 30 institutions in the

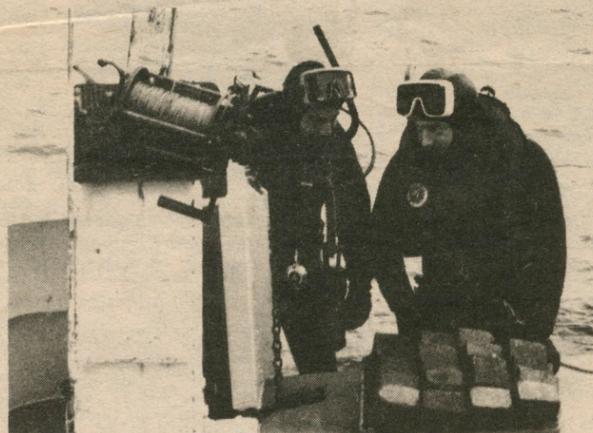
country in research funding received from the federal government's National Science Foundation.

Eight departments showed research expenditures of more than \$1 million, with Physics topping the list at \$4,319,352. Chemistry, Microbiology and the Marine Sciences Research Center totalled more than \$2 million each; Earth and Space Sciences and Biochemistry close to \$1½ million; Pharmacological Sciences and Neurobiology and Behavior were each in excess of \$1 million.

The major sponsors of the research monies were federal agencies, granting Stony Brook almost 80% of their funding. The total from State and local governments was \$1,527,997; and from voluntary health organizations, \$790,604. This fiscal year also showed an increase in research monies from private, professional, non-profit and commercial sponsors, adding up to more than \$2 million. Stony Brook received another \$1,325,585 in funds from the State University's Research Foundation.

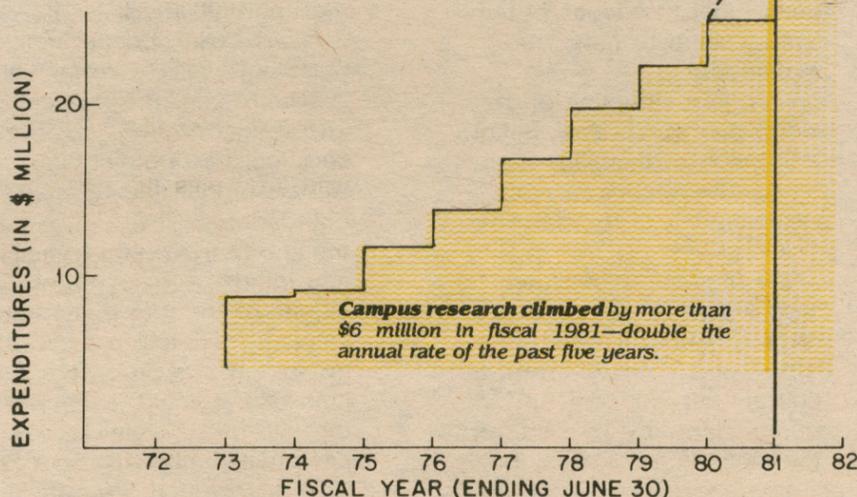
"This dramatic increase in research funding means that we are engaged in precisely the kind of high technology business Long Island would like to attract," said Stony Brook President John H. Marburger. "This should provide a continuing stimulus for our regional economy," he added, "since, at the current \$31.2 million level, it already exceeds the dollar volume of many Long Island firms, with more than one thousand of the University's roughly five thousand employees paid not from state tax revenues but from the funds generated by this research business."

Stony Brook's regular state-funded instructional and research budget for the generally comparable 1980-81 fiscal year was \$120 million. That, plus the research funding and related campus and campus organization operating funds, brought total Stony Brook operating expenditures during the past year to \$193.2 million.



Life from waste. Marine Sciences oceanographers prepare for a dive to build an artificial reef from coal waste blocks for habitation by marine life.

Stony Brook steps up its research activities



Research projects include:

- Dr. Aaron Janoff, pathology, heads a team seeking to determine why smoking destroys the lungs of some people but has little effect on the lungs of others. Supported mainly by a grant from the National Heart, Lung and Blood Institute, these researchers are the first to discover that cigarette smoke contains "free radicals" which are potent oxidizers that suppress cells which are natural protectors of the lungs. They are now developing a chemical screening test for the early detection of the break-down of these protective inhibitors.

- Professors Sheldon Weintraub and John Neale, psychology, are engaged in a longitudinal study of children who are high-risk candidates for personality disorders because one or both parents have an affective disorder such as schizophrenia. From their research, funded by the National Institute of Mental Health, they hope to determine which early signs in the children's behavior indicate that they, too, may be the victim of

an emotional disorder as they approach adulthood.

- Coastal Oceanographers Peter Woodhead and Iver Duedall, Marine Sciences Research Center, are researching the environmental effect of disposing coal waste in ocean waters. They are testing to see if blocks made of stabilized coal wastes from utility plants make suitable building blocks for artificial reefs in the sea to

enhance marine life. In an experiment funded by the New York State Energy and Development Authority, the New York Sea Grant Institute and the U.S. Department of Energy, the researchers are finding that marine life is colonizing an artificial reef they built in the Atlantic Ocean from stabilized coal waste blocks.

- Nuclear physicists at Stony Brook and scientists at Caltech are producing a new generation of "machines" that will put

heavy ion physics on a new plane with Stony Brook in the forefront of this field of physics. They have developed a super "atom smasher", a superconducting booster to be added to Stony Brook's present accelerator, the Van de Graaff. Physics Prof. Gene Sprouse, project co-director for the Superconducting Heavy Ion Line or Accelerator (LINAC) Project, explains that this project will open a path to new information about the nucleus, the central core of all atoms. The research is supported by a \$3.2 million grant from the National Science Foundation.

- Prof. Richard Dyer-Bennet, Theatre Arts, is recording the entire Fitzgerald translation of Homer's *Odyssey*, funded by a grant from the National Foundation on the Arts and Humanities.

- Prof. Herbert Gelemtier in the College of Engineering and Applied Sciences has developed SYNCHEM 2, a computer programmed to "think and behave" like an organic chemist in the laboratory. Supported mainly by the National Science Foundation and the Environmental Protection Agency, SYNCHEM 2 is a very large computer program able to discover synthesis routes for complex organic products.

Wright official becomes VP-Operations

Dr. Robert A. Francis from Dayton, Ohio, is the newest of three top administrators to arrive on the Stony Brook campus this fall.

"There's tremendous optimism here," he said after his first few weeks at Stony Brook. "It's the only university I've seen in the last two or three years where optimism about the institution's future seems to pervade every office on the campus. And, given that attitude, I'd say that amazing things are going to be accomplished."

Dr. Francis, 32, has filled the new position of vice president for campus operations. He has responsibility for consolidated operations affecting the campus and campus life, including physical plant management, facilities planning and

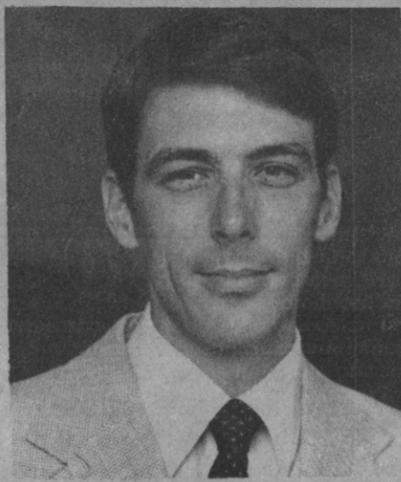


photo by Steve Grillo

utilization, public safety and security and environmental safety.

Formerly executive director of campus planning and operations at Wright State University in Dayton, he brings a background in teaching, business, architecture and engineering to the new position.

Dr. Francis was selected for the new vice presidency after a five-month national search in which more than 200 candidates were considered. Dr. Jerry R. Schubel, director of the Marine Sciences Research Center at Stony Brook, headed a search committee for the position. Dr. Schubel said committee members "were impressed with the special combination of operational, technical, architectural and related experience which Dr. Francis will bring to this very important position for the campus."

Before becoming head of planning and operations at Wright State in 1977, Dr. Francis spent three years as assistant to the dean and then as assistant dean of Wright

State's College of Liberal Arts.

A 1970 graduate of the University of Dayton with a bachelor's degree in industrial technology, Dr. Francis taught eighth and ninth grade mathematics in 1970-71. He was an instructor of business writing and freshman composition at Wright State from 1971 to 1976 and an adjunct instructor of accountancy there from 1976 until this year.

Dr. Francis holds two master's degrees, an M.A. in English from the University of Dayton in 1971 and an M.B.A. in Accountancy from Wright State in 1976. He received a Doctor of Education degree with a cognate in Architecture from Ball State University this year. He has been a certified engineering technician since 1970.

Dr. Francis, his wife Roxanne and their children, Max, 7, and Kimberly, 3, are residing in Port Jefferson. He is a licensed parachute jumpmaster and a licensed ski instructor.

Departments collaborate on 19th century Germany conference

The conditions that came together in 19th century Germany "helped produce a veritable explosion of genius," Prof. Barbara Elling told the opening session of an unusual interdisciplinary symposium at Stony Brook Oct. 16-17.

Chairperson of the Department of Germanic and Slavic Languages and Literatures, Prof. Elling was giving the keynote address for a gathering that itself was an explosion of erudition.

Over a 36-hour period, the symposium, "Nineteenth Century Germany: Cultural Aspects of an Age," brought together about 500 persons from the faculty, staff, student body and general public to hear 16 professors from 14 departments at Stony Brook.

Pres. John H. Marburger wrote Prof. Elling: "That you were able to assemble such a distinguished contingent is a tremendous tribute to the breadth and depth of our faculty."

Prof. Robert Sokal, vice provost for research and graduate studies, told the opening audience that he was "very proud" that the conference could be "mounted entirely with Stony Brook talent."

Prof. Elling explained in her opening address: "The scope of the conference and its interdisciplinary design are ambitious. The papers are meant for a general audience to give a glimpse of the region which became the intellectual laboratory of Europe during the 19th century, the region in which most new ideas of the century seem to have originated."

A random sampling of the addresses reflects Prof. Sokal's description of the 19th century German knowledge: "the encapsulation of the progress of civilization."

Max Dresden, Department of Physics, said "science has a role to play in the general culture of a society." From the "cultural ferment" of 19th century Germany, he said, came "the beginnings of scientific doubts and conflicts." Despite the weight of evidence, acceptance of new ideas was often reluctant, even painful.

And Dr. Dresden's lively lecture added a touch of humor. Introducing a citation, he said: "I translated (it) from the German. I hope it is correct. But you won't know because I won't give it in German."

Helmuth Norpoth, Department of Political Science, described the emergence of a democratic



photo by Steve Grillo

Taking a break at the symposium on 19th century Germany are, from left, Prof. Sei Sujishi, dean of physical sciences and mathematics; Prof. Barbara Elling, department chairperson and conference coordinator, and Prof. Max Dresden, physics, one of 16 lecturers.

majority in the authoritarian state that was the German empire. He noted a "fault line" familiar to American voters of today: not all who voted for certain candidates supported their parties' ideas.

Lewis Coser, Department of Sociology, called Germany a "latecomer...in making peace with modernization." He cited sociologist-economist Max Weber "among the German mandarines." The mandarines—people of position and influence—"saw themselves as guardians of true German culture as rooted in the past," he said. Weber advocated "a kind of expedient democracy" through the "bureaucracy he personally hated." He was, Prof. Coser concluded, "forever an alien in the land he never left."

Also giving lectures were professors:

Nandor Balazs, physics
Detlef Gromoll, mathematics
Robert Kerber, chemistry
Robert Liebert, psychology
Charles Staley, economics
Werner Angress, history
Johannes Hardorp, earth and space sciences
Konrad Bieber, French and Italian

Mary Rawlinson, philosophy
Richard Kramer, music
David Lawton, music
James Rubin, art

Moderators:

Dean Sei Sujishi, physical sciences and mathematics
Dean Frank Myers, social and behavioral sciences
Dean Sandy Petrey, humanities and fine arts.

The two-day program also included social activities: A Sunwood reception and *Liederabend* that included an all-German program by mezzo-soprano Elizabeth Erskine Patches. On the final evening, the University's Festival Orchestra, performing at the Fine Arts Center, played works by Brahms and Beethoven, 19th century German composers.

Dr. Schulze Boysen, consul general for the Federal Republic of Germany, said he was "very impressed" with the entire program. And Dr. Schulte Strathaus, consul for cultural affairs with West Germany's consulate in New York City, called it "a magnificent program."

Asked repeatedly "Will you do this again next year?", the ebullient Prof. Elling said the department is planning an April conference on contemporary Eastern Europe.

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SB researcher develops window shades for heat

Back in the early 1970s, few people worried about their fuel bills, fewer had ever heard of energy conservation and little research was underway in the field.

But even then, Engineering Prof. Abraham L. Berlad was deeply involved in work that has yielded important contributions to the development of more effective space heating technologies and better understanding of how insulation materials and window systems can be improved to serve consumer needs.

In 1972, for example, he was already reporting that inefficient oil burners were wasting billions of gallons of fuel oil annually. Few homeowners were listening then as he said that \$500 million a year could be saved through simple oil burner inspection and maintenance procedures and through such modifications as the installation of retention head burners.

More recently, with such oil burner efficiencies being widely adopted, Prof. Berlad's attention has been focused on an even greater energy conservation problem—the poor insulation value of window systems.

up, but only to 1.5. Upgrade your window system to current combination, two-pane window/storm windows and the "R" value is between 1.7 and 2.

Window heat loss could, of course, be reduced by bricking up window space. But, instead, Prof. Berlad began trying to develop a new window that would provide the "R" 10 value of a well-insulated wall—one filled with 3½ inches of insulation.

Now, after several years of research supported by \$150,000 in grant funding from the U.S. Department of Energy, he has developed such a window. It's a combination window/storm window that has been patented by the Department. A major manufacturer is planning to start producing it commercially, probably in the coming year, at a cost that Prof. Berlad estimates will be just \$3 more per square foot than current combination windows.

It is, essentially, a double-pane window with a specially designed venetian blind sealed inside. It utilizes plastic window bonding and



photo by Steve Orillo

rating of about 2. They are designed, however, not necessarily for energy conservation but as a convenient combination of window and blind which reduces institutional maintenance costs.

The new window reduces the space between individual blades of the window blind, thereby suppressing convective heat losses. And, it incorporates an aerodynamic shaping of the blades, creating "a nice, solid insulating wall" when the blind is closed.

Its sealed-in blind, Prof. Berlad says, is the new window's most important insulating factor. Even when open it provides, he says "a highly efficient means of inhibiting the passage of heat via natural convection and infrared radiation from one pane of glass to the other."

"Blinds have always been thought of in terms of privacy or decoration," Prof. Berlad observes. "And with this window they still can be. You can open its blind or pull it up and still have a higher degree of insulation than is now possible."

Prof. Berlad's ideal version of the new window has two sealed-in blinds. Such a window unit would, including its two panes of glass, provide a sealed sandwich of four insulating layers surrounding three insulating air spaces.

With such a two-blind window, Prof. Berlad has achieved an "R" 10 solid insulated wall insulation rating. However, even with a single blind window, which he believes will be most attractive for commercial production, he has obtained an "R" rating of 7.5; The new window would even offer about twice the R-4 insulation value which, as the *Reader's Digest* reported in an energy-saving article this fall, can be achieved by using a combination of triple glazing and insulated draperies; that is, three-pane windows backed by foam-lined draperies.

For those who aren't ready to

invest in new windows—or who can't wait—he notes that the aluminized plastic material used in the new window's blind has great insulating value by itself. "You could get an 'R' value of 3, nearly twice that of an ordinary window and storm window together," he said, "simply by stapling a sheet of aluminized plastic sheeting onto the back of every window shade in your house." This material is available commercially, Prof. Berlad says, but it is not in wide use.

With everyone tuned into energy conservation today, Prof. Berlad's window project should gain a far more receptive audience than his initial proposals on oil burners in the early 1970s.

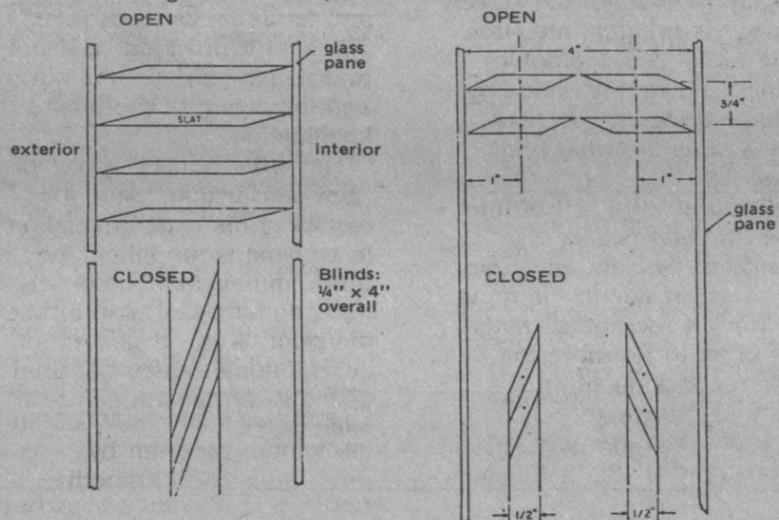
The window and oil burner work was done in the Energy Technology Laboratory that he directs in Stony Brook's College of Engineering and Applied Sciences. That laboratory space, in the Heavy Engineering Building, is crammed with window models and other experimental apparatus for studies being done on everything from foam insulation to thermal draperies.

Prof. Berlad has been a faculty member in the Department of Mechanical Engineering since 1966. His principal research interests had been in combustion processes associated with jet engines and forest fires until his own home was damaged by furnace smoke in 1970. It was then that his attention turned to the relatively primitive combustion device that is the basic home oil burner.

"I began to think," he recalls, "that if a guy like me, who's supposed to know something about these things, doesn't know what his oil burner is doing, imagine the fix other homeowners are in."

The resulting years of heating system research were summarized in a book he published last year, "A Home-Heating Guide for the Long Island Home Owner." The book is a practical guide to reducing heating costs, sharing step-by-step the kind of procedures by which he reduced his own home heating costs by about 40 percent.

Schematic Diagram of Interpane System



Single Array Window System

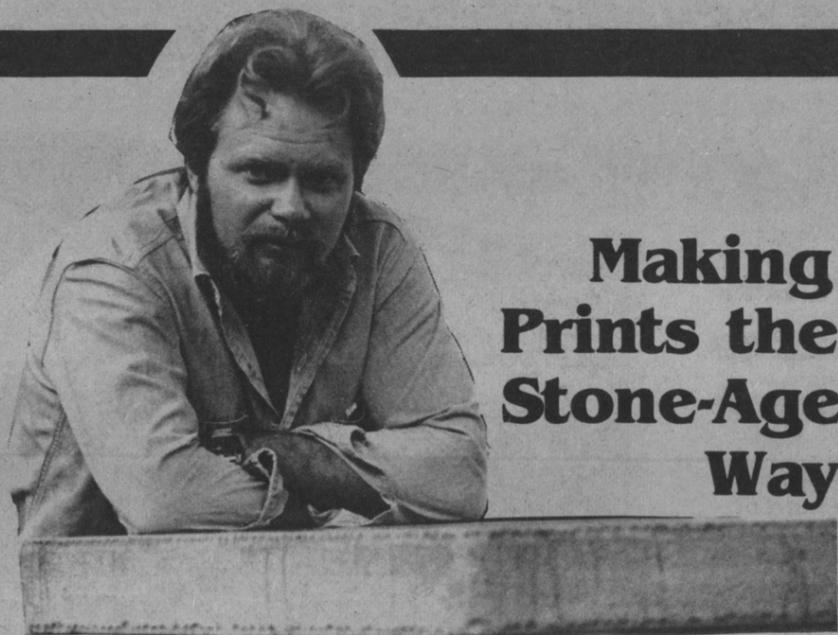
Double Array Window System

Windows, he explains, cause by far the greatest energy loss problems in homes and other buildings since even the best of them provide far less insulation protection than a properly insulated wall.

Such a wall has an insulation market "R" (thermal resistance) rating of 10. An uninsulated wood wall has an "R" rating of about 3—an uninsulated brick wall's "R" value is also about 3. By contrast, single pane windows have an "R" value of less than 1. Add a storm window and the "R" value goes

aluminized plastic construction, eliminating much of the heat loss that comes from the high rates of convection and radiation associated with normal enamel-painted aluminum windows and blinds.

The new window closely resembles two-pane, sealed-in blind windows that have been used for years by some schools, hospitals and other institutions. These are the most energy efficient windows presently available, with an "R"



Making Prints the Stone-Age Way

photo by Frank Sealy

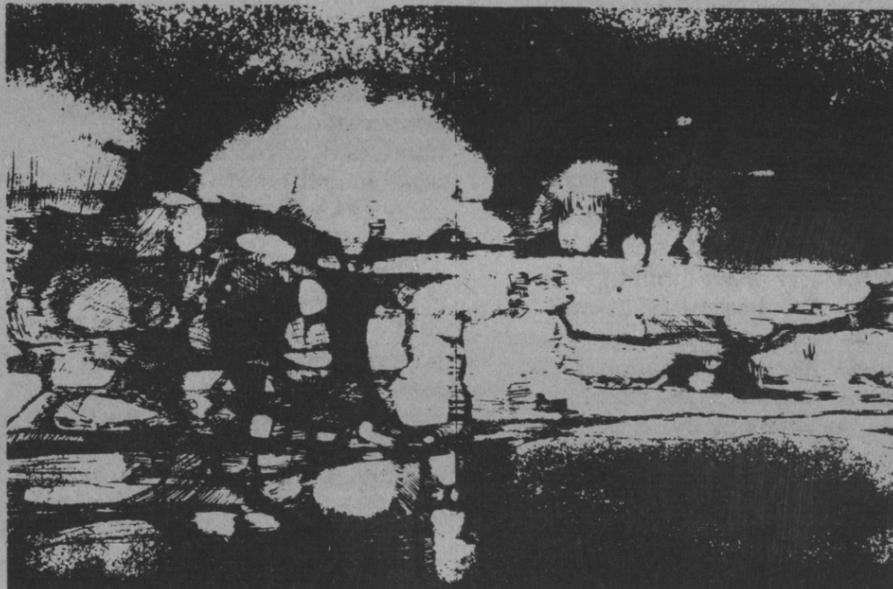
In 1969, Dan Welden, who was studying art in Munich, walked into the *Stein Druck* studio. It was the workshop of Kurt Lohwasser, a master stone lithographer.

"This is a stone," he told Welden, pointing to a rectangular chunk of fine-surfaced limestone. "You can make your art on it and make multiples of your creation."

That was Dan Welden's introduction to stone lithography—a printmaking technique in which an original image is created on a prepared stone surface and then treated, inked and printed. The process is laborious, but the resulting art work is almost limitless in its variety. Fascinated with this art, the young artist studied the craft and is now recognized in the United States and Europe as a gifted master of stone lithography.

Five years ago, Welden joined the faculty of the Stony Brook Art Department and became a catalyst for expanding the graphics curriculum to include instruction in a variety of printmaking techniques.

"The print is a primary art form, a most specific creative outlet," said Prof. Welden. "It



can be spontaneous in the creative act; however, it is a process that takes time because it is highly technical and very physical. The important factor about this is when the artist's image is created directly on stone, metal, wood or silk, each print is an original work of art."

The program at Stony Brook includes visits by noted community painters and sculptors. Artists such as

Robert Dash, Fred Badamente, Helen Rundell and Roy Nicholson have tried their creative hands at art in new materials and methods at the campus' print workshop.

The rich mix of students and artists, coupled with the challenge of producing original work within the many branches of graphics—such as lithography, intaglio and screen printing—is bringing attention to the Stony Brook graphics facilities and its art work. Prof. Welden's students have won many awards in juried print shows.

A group of local artists have formed a Long Island Printmakers Society. With Dan Welden as president, the group, now with 14 members, wants most of all to promote the public recognition of fine printmaking through exhibitions, lectures and demonstrations.



photo by Shaw Concerts, Inc.



photo by Steve Orillo

Violinist opens music series

Internationally recognized violinist Nathan Milstein opened the 1981-82 Music Series at the Fine Arts Center Oct. 15. He was accompanied by Jonathan Feldman at the piano. The program included a Vivaldi Sonata; Beethoven's Sonata in C minor; and the Liszt-Milstein "Consolation." Milstein's most recent recording of the Bach

Partitas and Sonatas for Violin Solo won a Grammy Award.

After the concert, an opening night gala was held in the lobby for the Friends of the Fine Arts Center. Approximately 1,000 individuals have joined the year-old organization which assists to support the center.

Three Stony Brook alumni are members of the Printmakers Society: Jonathan Reilly, Lorna Logan '80 and Craig Zamiello '79. Zamiello recently received a grant from the Ministry of Culture in Belgium to conduct a workshop for artists in that country. Logan has been recognized for her abilities as a printmaker with invitations to assist artists such as Saul Steinberg and Arnold Hoffman.

Dan Welden and his associate print collaborators recently received a request from the director of the Leopold Hoesch Museum in Düren, Germany. The Museum will hold a graphic exhibition featuring works that were mostly created at Stony Brook.

Prof. Welden received several national prizes in recent years, including the 1980 Society of American Graphic Arts' First Award for an individual print. This 48-inch stone lithograph, *AAA Trucking*, expresses his progression as an artist, according to Welden.

About two years ago, he began to experiment with objects with raised images, such as old license plates and mud flaps. He transfers them to the stone, then paints and draws around the images. After pulling the print, Prof. Welden sometimes reworks the impression with other drawing materials.

In a review of a recent one-man show at the Long Beach Museum of Art, written for *The New York Times*, Helen Harrison praised Welden's technique: "The directness of the method, and its combination of transfer and original imagery, opened new and fertile areas to explore." She said it provided "a visual bridge between the real world and the realm of the artist's imagination."

The artist himself spoke of "new satisfaction" with the results of his experimentation in carrying stone lithography to a new dimension. "I feel very good about being able to use the print as the beginning of an emotional outlet, but then taking it further through to a painting."

Gallery features large subjects

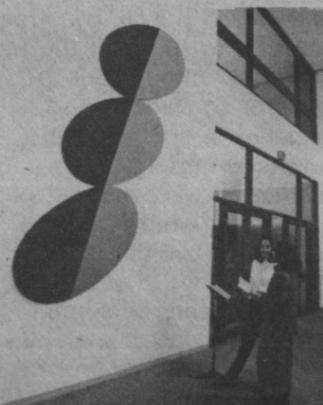


photo by Media Services

"Large Paintings 1979-81" is the appropriate title for the exhibition at the Art Gallery of the Fine Arts Center through Dec. 15.

Leon Polk Smith's works are routinely 10 feet high; several are measured at 15 feet, and one at 18 feet.

The native Oklahoman lives in Manhattan's Union Square and still owns his former home in Shoreham. Smith is "An exceptionally important abstract artist," said Lawrence R. Alloway, gallery director.

The gallery maintains a full schedule of art exhibitions and is open from 1-5 p.m.

Faculty spotlight



photo by Charles Marshall

Cowan— A Scholarly Approach to Feminism

"I've been a scholar for my entire professional career. That's what I do," says Ruth Cowan, an associate professor in Stony Brook's Department of History.

And this academic year, while continuing to teach at Stony Brook, she is carrying her scholarship to eight other American campuses and, in spare time, working on a book that records the history of household technology.

Prof. Cowan is one of 13 Phi Beta Kappa Visiting Scholars chosen to give lectures and to conduct seminars at a hundred colleges and universities around the country.

Being designated a Scholar (with a capital S) by the 200-year-old national honorary society has a certain irony: Ruth Cowan is not a member of Phi Beta Kappa.

"A scholar," she says slowly, thoughtfully, in an interview, "is someone who has attempted a disciplined mode of understanding something, has achieved certain discipline, and is applying that discipline to understanding the world."

Prof. Cowan's career has been filled with success and the kind of change one might expect from a scholar who is comfortable with discipline and yet unafraid in her professional maturity to be somewhat daring.

Her research and teaching are in the history of science and technology. A special, even personal, interest is in the study of the role of the woman in the household. The book that she is writing, a major goal for five years, shows that despite the introduction of such highly-touted "labor-saving" appliances as the washing machine, "housewifery" today requires the same 50-55 hours a week it did a half-century ago.

This is not the field the young Ruth Schwartz had intended to enter. Her early interests were in genetics and eugenics, and her scholarly articles have included research on the founder of the discipline now called biostatistics. But along the way she found her

academic attention turning to household technology and sex roles, and all that goes with those subjects.

As a teenager, she recalls, she was "very traditional." She was not a feminist, a word she uses now to describe herself at age 40. "It's hard to be a teenager who is unusual," she explains, "and being a feminist would have been very unusual when I was growing up. You're at an age when your own sexuality is a real worry, and if you're going to add that worry to the worry about being outlandish in your sexuality, or your sex roles, you've got a burden to carry."

Cowan on sex-role divisions:

"Before the mid-19th century, all work was housework. For example, flour. You grew grain, Men plowed and planted, women flailed the grain after the harvest. The man took it to a mill or ground it himself. Then it could be prepared by the woman for bread.

"In order to get the bread you had to have an oven. Men built ovens. In order to heat the oven, you had to have wood. Men chopped the wood. You could not have gotten a loaf of bread under most circumstances unless you had an adult male.

"One of the things anthropologists tell us is that there's no rhyme or reason to have these sex-role divisions made."

If Ruth Cowan has not always been a feminist, she has always been a scholar. She went uptown from her native Brooklyn to earn a bachelor's degree in zoology at Barnard College at the age of 20. She earned her master's degree in history at the University of California at Berkeley and her doctor of philosophy degree at The Johns Hopkins University. She taught at Maryland's Loyola College and University College in Cambridge before joining the Stony Brook faculty in 1967.

She serves on the Executive Council of the Society for the History of Technology and is an officer of the history and philosophy of science section of the American Association for the Advancement of Science.

To both her work and to her personal life, Prof. Cowan brings a sense of adventure.

"From my perspective," she explains, "as a good scholar I have to fall some of the time or I'm not taking any risks with my learning."

Ruth Cowan expresses the philosophy somewhat differently when talking about her family life with her husband Neil and

their three daughters, ages 11 to 1-1/2.

"The problems of maneuvering this enterprise are monumental and keep both of us awake at night," she says. "It wouldn't be possible if he (Neil) were a different sort of person. That doesn't mean it has been easy for either of us. We've still had our rough moments over (for example) who had to stay home today with a sick child . . . But you can't make an omelet without breaking the egg."

Neil Cowan calls Ruth his "renaissance wife" and his "best friend." Their daughters, he says, "are enormously fortunate in having a mother who is an intellectual and who spends time in the evening snuggling with them."

The Cowans agree on how they want to raise their children. "As much a feminist as I am," Ruth says, "I'm not going to bring up my daughters to be so outlandish in their behavior that they have difficulty getting along with other children. Consequently, they have been raised in some ways to replicate the same characteristics that society regards as 'feminine.' Both of my older girls have been taught to nurture the baby. That's what

they see going on around them. Consequently, they will end up, I hope, as being nurturing people who will put the interests of their families ahead of the interests of their careers when push comes to shove, which it often does.

"People are going to continue doing that. Society is organized that way. Which means that there's going to continue to be problems for women who want to merge their careers with their families."

Will women achieve equality? She laughs: "With turtle-like speed, yes. Very slowly. But women will always have to fight in some ways for equal treatment. It will be easier for my daughters than it was for me. But I don't think it will ever end. It's the social system as a whole."

Part of the change may be attributed to role models like Ruth Cowan. She's aware of that. "About a dozen undergraduates have gone on to be graduate students in my field. There are only two of us who teach the history of

science at Stony Brook and we are both women. That means if an undergraduate has gone on to become an historian of sciences it is because he or she has been influenced by us. Out of those dozen, 10 were women."

For herself, she enjoys the role of writer. "I'd love to be writing full time," she says. "I've got file drawers in my head full of ideas."

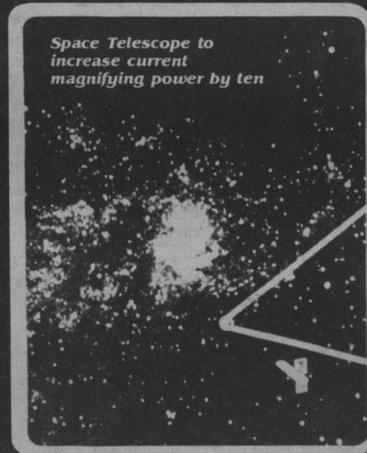
Ruth Cowan is enough of a disciplinarian so that you know those file drawers are lined up alphabetically. But she has enough rogue in her so that you could never predict accurately which drawers she might choose to open next.

She may not make an omelet often, but when she does it is evident that she lives as she believes—she's not afraid to break the egg.

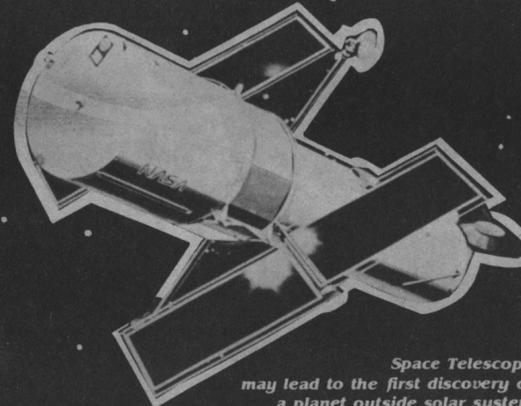
FACULTY NOTES

Prof. Lenora J. McClean, acting dean of the School of Nursing the past year, has been appointed dean by President Marburger. More than a year ago, Dr. McClean accepted an invitation to visit the Sturt Institute of Higher Education in Adelaide, Australia, during the fall semester. **Dr. Carole Blair** is serving as acting dean until Dr. McClean returns in January. **Prof. Anthony Rizzuto**, Department of French and Italian, is the author of a book, *Camus' Imperial Vision* (Southern Illinois University Press, 162 pp., \$15). The book examines the ethical consequences of ideas through the example of Albert Camus, one of the group of French existentialist writers that included Jean Paul Sartre. **Prof. Richard F. Kuisel**, Department of History, is the author of a book, *Capitalism and the State of Modern France: Renovation and Economic Management in the Twentieth Century* (Cambridge University Press, \$37.50). The book has attracted attention because it records the struggle between French socialists and neo-liberals that has led to French economic changes under President Francois Mitterand, in direct contrast to the "Reaganomics" now practiced in the U.S. **June Jordan** has published two new books: *Civil Wars*, a collection of essays, lectures, and letters (Beacon Press); and *Kimako's Story*, a children's book (Houghton Mifflin). **Prof. Harry Kalish**, Psychology, is author of *From Behavioral Science in Behavior Modification* (McGraw Hill, 436 pp., \$19.95). **Prof. Armen H. Zemanian**, a faculty member in the Department of Electrical Engineering will be co-editor for a scholarly journal dealing with the expanding field of signal processing, *Circuits, Systems and Signal Processing*, will be the 22nd scholarly journal to be edited or co-edited by Stony Brook faculty members. **Books For the Gifted Child** (R.R. Bowker, New York and London), co-authored by **Dr. Barbara Baskin**, director of special education at the State University of New York at Stony Brook, has been selected by the American Library Association for their current listing of outstanding reference works. **Prof. Iver W. Duedall**, Marine Sciences Research Center, was chairman of the Third International Ocean Disposal Symposium at Woods Hole, Mass., Oct. 12-16. More than 100 scientists from eight countries participated. Three College of Engineering and Applied Sciences faculty members are participating in fall programs of the Long Island Forum for Technology (LIFT). **Prof. Stephen D. Shapiro**, head of the Department of Electrical Engineering, was chairman; **Prof. Stephen E. Sussman-Fort** of the same department presented a paper at the Nov. 12 program, and **Prof. Abraham Bertad** of the Department of Mechanical Engineering gave a report at the Dec. 3 program. **Dr. Robert Nathans**, Institute for Energy Research, has been awarded \$239,583 by the CMSN Nacional de Política Dom. Rep. for the study of implementation of an energy information system.

SB planetary astronomers lead the way toward "2001"



Space Telescope to increase current magnifying power by ten



Space Telescope may lead to the first discovery of a planet outside solar system

Planetary astronomy and Stony Brook. An academic field and a university that have grown up together.

Just over two decades ago, when Stony Brook was still in its planning stages, few astronomers specialized in the study of planets.

Today, NASA's probes into the solar system—missions with names like Apollo, Pioneer, Viking, Voyager and Galileo—have made planetary astronomy front-page news. And, a cluster of scientists, astronomer/astrophysicists, physicists and engineers who began gathering on campus about 1970 have made Stony Brook a world center for planetary astronomy.

Working mainly out of the white concrete Earth and Space Sciences (ESS) Building itself resembles a moonscape, the scientists have analyzed data from almost every major NASA mission. They used many of the major optical and radio telescopes in the world. They are involved with small international groups of scientists planning space probes that by the end of the century should result in detailed mapping and compositional analyses of every planet in the solar system.

In collaboration planetary astronomers also are looking toward nearby stars like Alpha and Proxima Centauri, searching for the first planets outside our own solar system.

Implicit in their work is a conviction that planetary

studies—within a few years or certainly a few decades—will yield new understanding about the earth's beginnings and the origin of life on earth. Even evidence of extraterrestrial life will probably be found.

With missions such as the recent Voyager flights, the planetary scientists are studying extensive evidence of abundant chemical activity beyond the earth. Evidence such as atmosphere, possibly chemically rich, dense including methane "snow" and methane "oceans," surrounding Saturn's largest moon, Titan. As yet, however, there has been no evidence of any biological life beyond earth.

"It seems highly probable that there is extraterrestrial life, even advanced extraterrestrial civilizations but we need the observations planned in the next decade or two to provide real data to test this point of view," said Professor of Astronomy Tobias C. Owen. A 45-year-old expert in planetary atmospheres, he has participated in five NASA missions, beginning with Apollo lunar flights in the late sixties and including the Viking Mars Landing in 1975 and the Voyager flybys of Jupiter and Saturn. As a member of NASA's imaging science team for the Voyager I and II missions, he helped target powerful telescopic lens-equipped television cameras which transmitted pictures back to earth through a computerized image coding/decoding process.

Two years ago, as Voyager I passed Jupiter, Prof. Owen suggested the photographic experiment that resulted in the

discovery of a ring around that giant planet. Now, while helping plan NASA's Galileo Jupiter Orbiter Probe scheduled to be launched in 1985, he is immersed in the analysis of Voyager II's flyby of Saturn and its satellites last August.

Pre-life conditions on Titan
"In a few days, we accumulated data with implications that won't really be understood for years," Prof. Owen said. "We're now sure, for example, that there is intense geological activity around Jupiter's rocky moon, Io, and in the atmosphere of Titan, Saturn's largest satellite. There were nine volcanoes erupting on Io as Voyager passed it. That's the most volcanic activity anywhere in the solar system, with Earth ranking second. There were patches of white and yellow 'snow' on Io, really crystals of sulphur dioxide. And, the dense nitrogen, methane, and hydrogen laden atmosphere of Titan makes it an excellent natural laboratory for studying very primitive, pre-life conditions."

Voyager I is now heading out of the solar system. Voyager II is moving toward a 1986 flyby of Uranus and a 1989 encounter with Neptune. That will leave only the most distant planet, Pluto, unapproached by NASA spacecraft. Meanwhile, attention is turning to NASA's planned Space Telescope, expected to be launched by the Columbia Space Shuttle early in

1985, becoming by far the most powerful optical telescope ever built.

Telescope to see new galaxies
Around the corner from Prof. Owen's office, another Stony Brook planetary astronomer, Prof. John Caldwell, is helping design the Space Telescope. He's one of 18 members of NASA's science working group for the project. Eight other campuses are represented in the group: Princeton, Johns Hopkins, University of California, Berkeley and San Diego, Wisconsin, Texas, Beloit and Cal Tech.

"The Space Telescope won't be affected by atmospheric distortion," Prof. Caldwell said. "Its resolution will be from 10 to 50 times as good as the best telescopes now available, those at Kitt Peak or Mt. Palomar, for example. It will be possible to see perhaps a thousand times more galaxies than now. And, the most exciting thing about it from a planetary studies viewpoint is that it may even lead to the first discovery of a planet outside our solar system."

Another Stony Brook planetary astronomer, Prof. Roger Knacke, is working with scientists from 20 other campuses on a proposal for a second-generation, infrared, space telescope for NASA.

The infrared telescope, if it becomes a reality, would provide a thousand times the sensitivity of present instruments for detection of infrared waves, heat waves, beyond the visible spectrum,

including emissions from gas molecules in the atmospheres of distant planets.

Prof. Knacke has obtained substantial information on the detailed composition of gases in the atmospheres of Jupiter and Saturn, using ground-based instrumentation and NASA's Kuiper Airborne Observatory, flying at 40,000 feet in a converted C-141 military plane.

The atmospheres of Jupiter and Saturn are also being studied by the Stony Brook faculty member most active in planetary research outside ESS, Prof. Robert D. Cess is a professor in the College of Engineering and Applied Sciences, a planetary atmosphere specialist. A mechanical engineer, he switched about ten years ago from studying radiation transfer in combustion systems to atmospheres.

For six years he has been doing collaborative research on Earth's atmosphere, climate and planetary clouds with a team of Russian scientists from the Luikov Institute at Minsk.

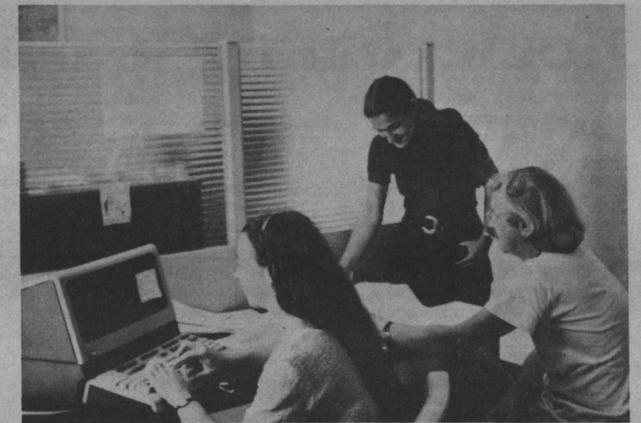
Meanwhile, like Profs. Owen, Caldwell and Knacke, he also is part of a small national NASA science team, one preparing a mission that will take place earlier and be closer to home. It's ERBE, the Earth Radiation Budget Experiment, involving three satellites: two weather satellites from NOAA and a third from NASA that will be launched during the next two years. With 16 other scientists from four other campuses, Prof. Cess will be measuring heat emissions from the Earth and Earth's atmosphere.

Pollution changing climate

The team is seeking a better understanding of how changes in the abundance of carbon dioxide in Earth's atmosphere may be changing its climate. The project was motivated by steady increases in atmospheric carbon dioxide resulting from increased fossil fuel burning. Scientists believe this may increase the Earth's average annual surface temperature by 3 degrees Centigrade (5° F) by the middle of the 21st century, compared to an increase of only 2 degrees Centigrade in the past 6,000 years.

That could cause monumental dislocation of current rainfall patterns, moving precipitation out of the Great Plains corn/wheat belt into northern Dakota badland areas, and causing extensive flooding of coastal areas. ERBE, if it produces conclusive evidence that this temperature change is taking place, would provide 50-75 years of early-warning time.

Stony Brook's planetary astronomers can draw frequently and informally on related work by other colleagues such as Prof. Miriam Forman in ESS, an expert on the physics of the interplanetary medium, and Dr. Prasad Varanasi, a specialist in laboratory spectroscopy, of the Department of Mechanics. They also benefit from studies in astrophysics being done by ESS Profs. Amos Yahil and James Lattimer, who, in turn, collaborate with faculty from



SB students: partners in space research

Graduate students are involved with all aspects of Stony Brook's planetary research. As a result, Stony Brook students frequently work at the Kitt Peak and Mauna Kea observatories, often traveling to and working alone at the observatories after an orientation period. One graduate student flew with Prof. Knacke in NASA's Airborne Observatory. Others spent time at the world's largest radio telescope in San Augustin, New Mexico, working with Astronomy Professor Michael Simon, Chairperson of ESS.

One former graduate student, Richard Terrile '72, now a staff

member at the Jet Propulsion Laboratory at Cal Tech, played a major role in the Voyager missions, discovering a tiny satellite orbiting Saturn. It's a satellite that helps hold one of Saturn's rings in place. And, fittingly, Prof. Terrile has suggested that it be named Atlas. Professor Phillip M. Solomon has taught students to use the 45-foot antenna of the University of Massachusetts for studies of interstellar clouds that may yield clues about the evolution of our galaxy. Still other students examine the stars with Profs. Deane Peterson and Johannes Hardorp.

other departments such as Dr. Gerald E. Brown, head of the Physics Department's Nuclear Theory Group.

Halley's Comet to soar by

Even as planning for future planetary missions and space telescopes proceeds, the attention of everyone linked to planetary studies is increasingly turning to the steady approach of Halley's Comet, which will near the sun in 1985/86.

Soviet, Japanese and European probes are being readied to head for the Comet.

"Halley's Comet literally could be the opportunity of a lifetime," said Prof. Owen. "It's a cosmic messenger, carrying nearly pristine material that was originally stored in the outermost parts of the solar system, at distances it would take centuries for us to reach. But we (U.S.) are turning away from this chance, even though the cost of a mission would be about the same as that projected for taking the World War II battleship New Jersey out of mothballs."

Stony Brook scientists will benefit from the projected foreign probes of Halley's Comet, even if a U.S. mission isn't scheduled. But, observed Prof. Owen, "When you're going after something you know so little about, it's a tremendous advantage to have several missions, to compare data, allow for unknown hazards, and use the full range of investigative techniques that are currently available."

Halley's Comet itself isn't likely to provide basic answers to the questions about life's origins and life elsewhere which

ultimately concern the planetary astronomers. But findings from the Comet combined with other research could do so.

"Comets may well provide a link between the solar system we see today and the primordial cloud of gas and dust from which the system formed," Prof. Owen said. "Besides, they are such fascinating, mysterious and beautiful phenomena."

"This problem of origins is one that intrigues us all." We not only want to know how we came to be what and where we are, we also want to know if there are other thinking beings out there among the stars. We have to admit at this point that our answers to that last question are little more than personal opinions. We simply lack the data with which to give a rigorously scientific judgment. We are proceeding slowly now, trying to fit the bits and pieces together that will allow us to make a more meaningful assessment of the probabilities for the existence of extraterrestrial life. But one radio signal from a distant civilization would be a dazzling shortcut—and such signals are being sought."

Then he turned back to the immediate problem at hand, analyzing the results from Voyager II's August flyby of Saturn for a series of four papers and articles with deadlines during the next few weeks.

Homecoming '81 better than ever

Rob Brodsky '78 stood at the edge of the football field, waiting for the second half of Stony Brook's Homecoming Game Oct. 2. As the sounds of the 180-piece Rocky Point High School band swelled around him, he could hardly contain his enthusiasm.

"It's just super coming back here, seeing the school, seeing all the players and the coaches, and all the football players that you played with. It's a great way to relive your past, I guess," said Brodsky, who has completed law school and begun work with a Connecticut firm.

As founder of the Patriots Club, he is the No. 1 booster of the football team's booster organization. On that early

The Rocky Point band, escorted by Department of Public Safety vehicles, marched from the Infirmary parking lot to the Administration Building to accompany the Patriots reception party to the playing field.

Led by co-captains Kristen Klein and Joan Murphy, the first football cheerleading squad in years was already at work before the crowd. Attendance was estimated in excess of 1,000.

The game itself was a cliff-hanger. After a Stony Brook fumble led to a first quarter score by Rutgers-Newark, the Patriots demonstrated a potent offensive attack. Quarterback



Former gridirons return: (L-R) Bottom Row: John Behan, Babe Schoenberg, Bill Bonomo, Mike Wall, Nick Kamillatos, Pete Laager, Rob Brodsky; Middle Row: Norm Berhannan, Jim DiPietro, Bruce Brandler, Bob Carley, Stu Sharoff, Joe Dibuono, Bob Lerroy, Al Lynch, Andy Ferrago; Top Row: Bob Clasen, Winston Kerr, Brian Seamen, Rob Busky, Paul Samuels, John Tater, Jim McTigue, Joe Gilliam, Jeff Miller, Marc Maklsic, Rich Reich, Mike Kopesch

October 2 evening, the former Stony Brook football player was both recalling the past—his 1975 Stony Brook team had played a night game under rented lights also—and helping launch what everyone would later agree was the "best Homecoming ever" for Stony Brook alumni.

The weekend included receptions, the football game, a dinner dance, the second annual campus run and a meeting of the Alumni Association Board of Directors.

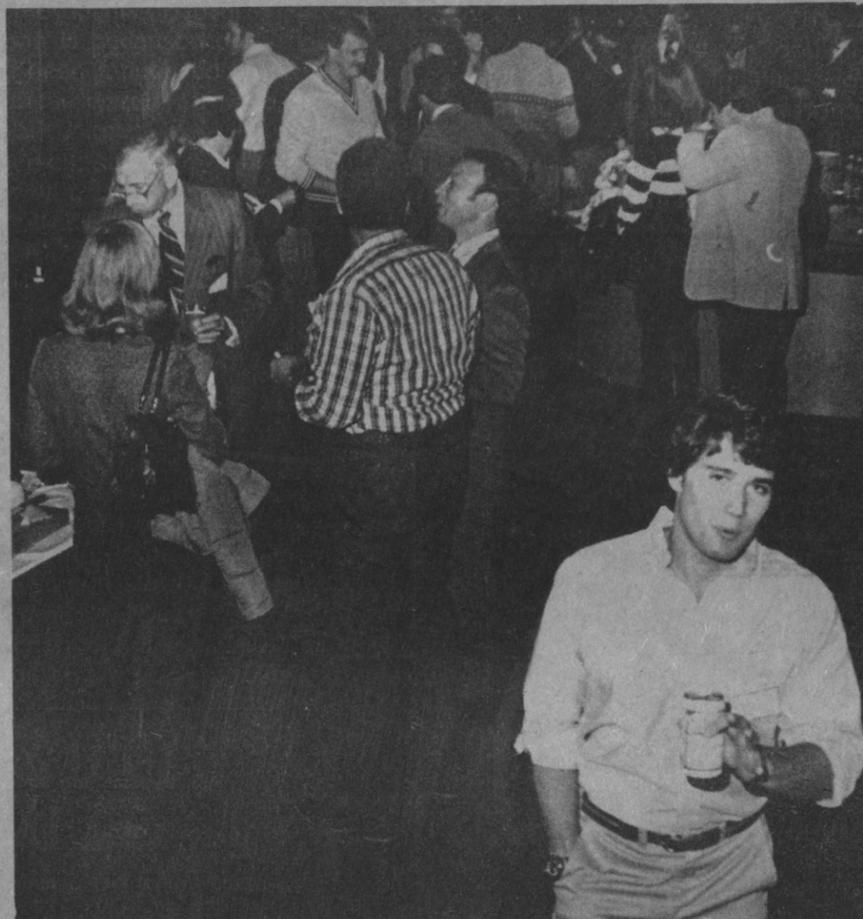
But, as Brodsky noted, the real highlight for the several hundred alumni who attended the various events was the opportunity to meet with former classmates.

The weekend began with a reception in the Administration Building lobby for 50 Patriots Club members and guests with Mr. James B. Black, vice president for university affairs, and Mrs. Black as host and hostess. The club, founded just a year ago, provided trophies for the 1980 Patriots football team. During the reception, a plaque was presented to Denise Coleman '77, Alumni Association director, by Brodsky in gratitude for her assistance in getting the organization going. Membership, he noted, is open to anyone interested in boosting the football team.

Ray McKenna '84 scored on an eight-yard run and passed to wide receiver Terry Russell '82 to gain a halftime tie, 8-8. Rutgers added another touchdown in the fourth period and held off Stony Brook's offense for a 16-8 win. Stony Brook outgained Rutgers, 209 yards to 171.

The Friday activities continued at the Stony Brook Union Ballroom where 200 gathered for a post-game "beer blast." Coach Fred Kemp and the football team, the cheerleaders, Patriots Club members and others from the campus community joined the alumni.

Saturday's dinner dance at the Victoria House 1890 in Setauket was planned by a committee headed by Alan Wax and Paula Warmuth of the Class of 1971, which was having its 10-year reunion. Alumni Association Pres. Mel Morris '61 welcomed the 144 persons attending. President Marburger spoke of the importance of the alumni to the University community and introduced Vice President Black and Frederick W. Preston, Stony Brook's new vice president for student affairs.



Rob Brodsky '78 (lower right), founder of the Stony Brook Patriots Club, epitomizes alumni spirit. Rob's enthusiasm was a driving force behind this successful football alumni gathering Oct. 2. **Cheerleaders** Joan Murphy '82 (left) and Kristen Klein '82 greet Alumni Association Director Denise Coleman '77 and Dr. Melvyn Morris '62, president, at the pre-game reception.

photos by Michael Petroske



With Friday night spectating over, alumni and guests did some maneuvering of their own at the class of 1971's dinner dance Saturday night.



photo by Steve Cirillo

The second annual 10 kilometer run attracted 121 entrants Sunday. Heading the 98 who finished was Kevin Manghen, a transfer student whose time, 38 minutes, 27 seconds, was 15 seconds ahead of the second place runner, Prof. David Smith of the computer science faculty.

The run was co-sponsored by the Alumni, *Statesman* and WUSB-FM, which broadcast the start and finish.

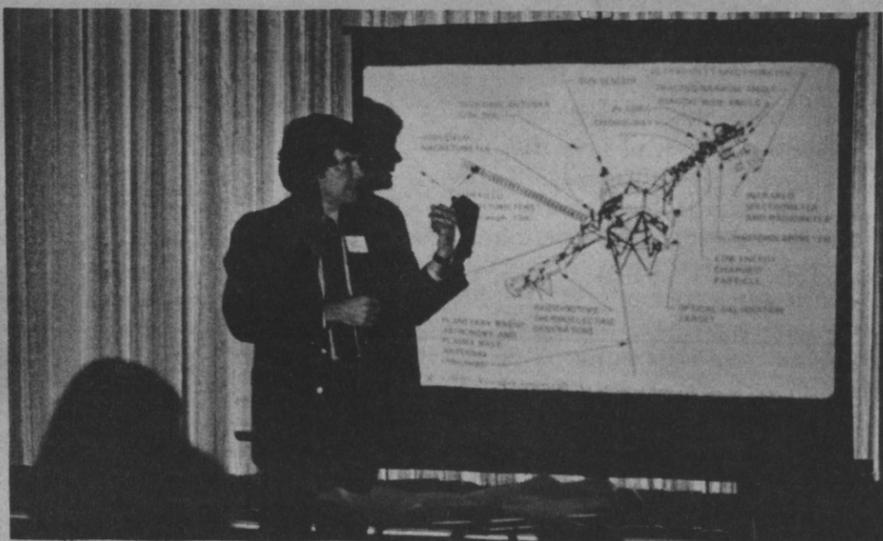
At the Alumni board meeting later Sunday, members agreed, in the words of Pres. Morris, that this had been "the most ambitious" and "the best ever" Homecoming.

For 1982, directors agreed

the weekend program should be expanded again. One of the ideas to be explored by Alumni Director Coleman is to have the five-year class reunions in the spring and to develop more general interest events at the autumn Homecoming in order to attract alumni from all classes. Under this plan, if the classes show interest, the 1982 spring program would include reunions for the Classes of 1962, 1967, 1972 and 1977.

Another major goal of the association, he said, is to increase participation. "We'd like to see active participation in the program as well as having people become active members of the association. We need the support for the programs."

Patriots Club founder Rob Brodsky had the answer. At the football game, someone suggested that if everyone had his spirit many alumni would be involved. He looked over the crowd of alumni in reserved seats near the Stony Brook bench and said, "Yes. My spirit and yours."



College Day lecturers included Dr. Toby Owen (upper), who reviewed space exploration progress and Dr. Judith Wishnia, (lower) who traced the history of women's studies.

Academic excitement recaptured at Alumni College Day

On the fourth Saturday in October, as most Americans were preparing to turn back their clocks one hour, more than 75 Stony Brook graduates were turning back academic time by years.

"Stony Brook—one more time..." encouraged a brochure for the new event called Alumni College Day. "Enjoy college without pressure."

The former Stony Brook students began gathering at 9 a.m. in the Social and Behavioral Sciences Building. It would be eight hours before most of them would be leaving. During their stay, they would attend as many as five 45-minute lectures, have lunch at the University Commons, hear a lecture by Prof. Tobias C. Owen on space voyages and wind up the day with a wine-and-cheese reception for the dozen participating faculty members.

It was a day of high enthusiasms...

• **For students—**
Suzanne McGuire '74 of Northport, who is completing Ph.D. work at Fordham, was an active participant in discussion in the classroom of Prof. Robert Neville, who heads the new interdisciplinary program in religious studies. "They didn't have anything like that when I was here," said McGuire. "I wish they did."

• **For faculty—**
Prof. Lewis Coser of the Department of Sociology sat cross-legged in front of a crowded class, a relaxed posture that contrasted with the deliberate, careful enunciation of a well-prepared lecture. When he concluded, the class burst into applause. The startled professor ran a hand through his longish, straight white hair. "That doesn't happen very often in a classroom," he said, smiling.



photo by Michael Petroske

• **For planners—**
Aldona Jonaitis '69, who chaired the Alumni Association committee, had arranged the impressive Alumni College faculty. "I could have had a dozen more, if I had had the space for them," she said. "They were all so cooperative."

Just like old times?
Prof. Jonaitis welcomed the early returnees over coffee and sent them off to the first two classes with the familiar direction: "Now you get going so you can find your rooms."

The classrooms soon filled. Students looked much like any Stony Brook class...perhaps with a little more gray hair, perhaps fewer jeans and more three-piece suits; a few window-gazers and a few avid notetakers.

Each professor was introduced by an Alumni Association member—Carol Davis-Wiebalt '76; Lynn Morris '70; Grace Lee '78; Joseph Van Denburg '69; Aldona Jonaitis, a professor in the Art Department; and Denise Coleman '77, director of the association.

As each class ended, the former students had a short break before heading for their next classes. Two lectures were held at each of the three morning sessions, followed by a luncheon at the University Commons, formerly the Senior Commons, in the Graduate Chemistry Building.

Introducing the luncheon speaker, Provost Homer Neal remarked that Prof. Owen would report on work being done in "the second" half of

Quote...unquote in the classrooms

Prof. Lewis A. Coser, sociology, on The Publishing Industry: "Subsidary rights—movies, television, paperbacks—have helped some authors, notably novelists, who otherwise might not have made it. Indeed, subsidiary rights have become the lifeblood of publishing."

Prof. Norman Goodman, sociology, on The Future American Family: "The predicted 1990 marriage rates will decline to...the 1890 level. The survival of the family is one of the greatest strengths we have."

Prof. Lee Miller, philosophy, on Dependency and Authority: "All nations are underdeveloped to some extent...All people and nations are interdependent."

Prof. Robert Neville, religious studies, on Asian Religions in America: "Look at Christianity. That has Jewish roots...But celebrating Christmas with trees? There's nothing in the Bible about that."

Prof. Ted Goldfarb, chemistry, on Demystifying the Energy Crisis: (Displaying a Harper's cover proclaiming, Energy Crisis Is Over) "I hope to convince you that's not so."

Prof. Lester G. Paldy, technology and society, on The Control of Nuclear Weapons: "We need human relations extended to the international level (by) diplomats and negotiators."

Prof. Judith Wishnia, women's studies, on The Emergence of a New Discipline: "Historians have found that women's history does not coincide with the historical periods. (Women's Studies) was still the story of deviant women."

Prof. Egon Neuberger, economics, comparing The Israeli Kibbutz and Yugoslavian Enterprise, two of the world's most important and long-lasting self-management programs:

"The economic success of the Kibbutz seems to a large extent derived from its voluntary nature and the fact that only a small proportion of Israeli citizens are members. The fact that all workers in Yugoslavian enterprises must belong to self-management organizations makes it more difficult for a Yugoslavian enterprise to operate as effectively."

Prof. William Arens, anthropology, on Ceremonial Incest and the Symbolism of Power:

"Some kings have become 'god-like' (through) installation ceremonies that merge what is usually apart—geographical areas, the sacred and the secular, the physical and the ritual...Incest is a rite of passage that is removed from normal social life."

Prof. Glenn Prestwich, chemistry, on Termite Defense: "To match the feat of African termites who build homes for their colonies above ground, Man would have to erect a building more than two times the size of the World Trade Center."



photo by Media Services

Numerous professors spoke on timely subjects to hold the attention of the 75 graduates who returned to experience college for a day, Oct. 24.

the Department of Earth and Space Sciences. The first, he remarked, "had recorded its own special program at mid-week...about 3.5 on the Richter scale." A mild but rare earthquake had been recorded by Stony Brook's two seismographs Oct. 20. (For a special report on Prof. Owen's work, see pages 6,7 in this edition.)

Then it was back to classes—two more 45-minute sessions, each with two lectures—for most of the former students. Just like old times, some slipped out for other campus activity. Rob Brodsky '78, left to cheer the Stony Brook football team to a 15-13 victory over Manhattan College. As founder of the Patriots Club, a booster group of former football players and others who lend special support to the grid team, he could do no less.

And Sandi Brooks '78, of Mineola, a former *Statesman* editor who is now an assistant district attorney for Nassau County, confided to a friend:

"I'm cutting my next class to see some friends upstairs (in Graduate Chemistry). I'll see you at the one after that!"

Day judged a success
Chairman Jonaitis and Director Coleman had a lot of help in their post-event critique. They pored over evaluation sheets turned in at the request of Alumni Association President Melvyn Morris '62. What did they enjoy most? The responses were repeatedly: "Being on campus again"; "Reliving my school days"; "Meeting people from different classes of Stony Brook and finding out what they are presently doing"; "Total enjoyment—excellently prepared."

Added Alumni Director Denise Coleman '77: "We were especially pleased that Alumni College Day brought so many former students back for the first time since they graduated."

Alumni compose LI Brass Guild

Nowhere is it written that membership in the Long Island Brass Guild is restricted to graduates of Stony Brook.

Nevertheless, that respected group of six musicians includes only former students of the University's Department of Music.

"It just happened that way," shrugs David Schecher, music director of the Guild and a 1975 graduate with a master's degree in music.

He also arranges the Guild's schedule—concerts by a trio and a quintet, which are its two performing groups, as well as many teaching sessions conducted for public school children during the academic year.

"Joyce Kilmer, Dave Naylor and I were all classmates (1974-76) and we began playing together as a trio both on campus and off campus," Schecher said.

When Naylor dropped out, his place was taken by James Sabatella, currently a graduate student. And when a quintet was formed, William Pelzar played with the group briefly. Schecher, a trombonist, and Kilmer, who plays the French horn, have been with the Guild since its founding.

The other Guild members are Willard Sprague, MM '77, tenor trombone; Douglas Mendocha, MM '79, trumpet; and Patrick Dougherty, MM '79, trumpet.

Performing with "Stony Brook musicians" is simply routine for Dave Schecher. "Almost everyone I have played with out here (on Long Island) has taken at least one course at Stony Brook," he said.

Like the others, he performs regularly with other groups as

What's up with the frosh?

The members of the class of 1985 are bright, inquisitive and independent, say the University orientation and admissions officers who have had the most initial contact with this Fall's 1887 freshman students. The freshmen also seem to be adapting to student life on campus more comfortably.

They arrived in September with mean high school averages of 88.9 percent. Most of them are about 18 years old.

Male and female freshmen are about equally divided, 979 and 908 respectively. A high proportion of the freshmen are receiving financial aid, 41.5 percent.

They've come to campus, as in the past, mainly from Suffolk, Nassau and New York City, the homes of 1632 of the freshmen. The other 13 percent represent 25 additional New York State counties, 14 states and 23 foreign countries.

The major field of study of greatest interest to this fall's freshmen is biological sciences where 17.7 percent would like to major. Engineering is second, 12.9 percent, and computer and information sciences, third, with 10.7 percent.

More than 50 of this fall's freshmen were admitted through a new early notification program. They include the first six students designated as University Scholars.

well. All the quintet members, for example, play with the Atlantic Wind Symphony, which is based in Sayville.

All six teach music—Dougherty, Schecher and Kilmer privately, the other three in public schools.

The trio introduces the brass instruments and chamber



photo by L. Livingston



music to about 3,000 young students each year through their almost-weekly public school appearances.

That phase of the Guild's activities is so popular that the musicians have performed as far afield as Maine. The schedule this fall includes a clinic (Dec. 1) for the New York State Music Educators, a large organization of college and public school teachers, gathered in the Catskills.

The quintet performed in concert at the Fine Arts Center Recital Hall Nov. 13 and will appear Dec. 6 with the University's Chamber Singers under the direction of Prof. Marguerite L. Brooks. The latter concert is to benefit the Chamber Singers' 1982 European tour fund campaign.

The quintet and Chamber Singers also will appear together Feb. 13 at Shoreham. Other area concerts will be performed by the Guild during the winter.

Guild members rehearse "usually once a week," Schecher said. And they have other commitments in concerts and education throughout the metropolitan region.

"We're very popular at PTA fund-raisers," Schecher noted, chuckling.

As close as the six former Stony Brook students are musically, they seldom see each other socially. "Maybe once in a while a couple of us will get together for a dinner, but it doesn't happen often," Schecher said.

For him, there is the continuous work of preparing the transcriptions for works being added to the Guild's already considerable repertoire. "It ranges from early Renaissance to the contemporary," Schecher said. "We've even done some avant-garde music by (Stony Brook Prof. John) Lessard, exploring different rhythms and tonality."

Five Stony Brook graduates make up the Long Island Brass Guild Quintet. From left, they are Douglas Mendocha and James Sabatella, trumpets; Joyce Kilmer, French horn; and Willard Sprague and David Schecher, trombones. Inset is Pat Dougherty.

Not to mention Scott Joplin's ragtime music. Or fanfares at President Marburger's inauguration last May.

"We don't do a lot of that, but we try to provide variety in our concert programs," Schecher added. A sample program includes six 16th century French dances, a four-part suite written in 1967, a march-waltz-quick step suite from the 19th century and a 17th century work.

One reason for the Guild's popularity, especially with musicians, may be its style. Although Schecher is music director, readings of his transcriptions and arrangements are "very democratic," he said. Each musician is given the opportunity to bring a touch of creativity and personal style to the playing.

Schecher himself, for example, favors a singing style of trombone playing that gained popularity at the Eastman School of Music in Rochester.

Simon Karasick, who retired in May after 16 years as

Introducing...

PATRICK DOUGHERTY—trumpet; home: Massapequa; B.A. from SUNY/Fredonia, M.M. from Stony Brook 1979; performs full time with orchestras of the Metropolitan Opera, New York City Ballet and New York City Opera, among other groups.

JOYCE KILMER—French horn; home: Middle Island; B.A. 1973 and M.M. 1974 from Stony Brook; private teacher; chamber music performer and soloist for seven years.

DOUGLAS MENDOCHA—trumpet; home: Lake Grove; B.A. from SUNY/Potsdam, M.M. from Stony Brook 1979; teacher in Three Village School District; regular concert performer and soloist, and music director of Jericho Singers and Smithtown Gospel Tabernacle.

JAMES SABATELLA—trumpet; home: Rocky Point; B.A. from Stony Brook, candidate for M.A. in library science at Stony Brook in May 1982; teacher in Sachem School District; regular concert performer.

DAVID SCHECHER—bass trombone and music director; home: St. James; B.A. from Ithaca College, M.M. from Stony Brook 1975; private teacher; chamber music performer more than 15 years.

WILLARD SPRAGUE—tenor trombone; home: Sayville; B.M. from SUNY/Fredonia, M.M. from Stony Brook 1977; teacher in Sayville School District; principal trombonist with Atlantic Wind Symphony.

director of the University Band and a brass teacher, rates the Long Island Brass Guild highly. "I'd match them with many of the brass quintets in the country," he said.

Ronald Anderson, who has taught all six Guild members in classes, recalls them as disciplined, hard-working professional musicians.

Is it possible the Long Island Brass Guild may be so successful that one day its members can devote full time to its programs?

"No," said Schecher. "There are only two full-time (brass) groups in the country, the Empire Brass and the Annapolis Brass. There have never been so many outstanding brass groups as there are now."

On the other hand, the quintet has been performing three years without a personnel change and the trio has six years' experience in conducting public school clinics, and their future could stretch out as those program notes that seem to last "forever."

Alumni Events

Alumni-Faculty Dinner Series
December 4, 8 p.m.
Featuring Dr. Beverly Harrison, Affirmative Action officer, SUNY at Stony Brook

Alumni Squash Reunion
December 12

Board of Directors Meeting
December 13, 10 a.m.
Rm. 201, Stony Brook Union

Alumni Basketball Reunion
February 12
6 p.m.
SB Alumni Team vs. J.V.
8 p.m.
SB Patriots vs. Cortland

For further information contact:
Denise Coleman
Director of Alumni Affairs
336 Administration Building
(516) 246-7771

CLASSNOTES

67 **Bruce "Swami" Betker** is founder and president of the Tennessee Valley Music-Art Association. He has already produced more than 40 shows as a part-time television producer...**John Mince-Ennis** and **Suzanne Mince-Ennis '68** are family therapists in private practice in New York. They have two children: Beth, 12, and John, 11.

68 **Kenneth Male '68** and **Ann (Senft) Male '69** have a 7½-year-old daughter, Addie.

69 Oregon is the new home of **Walter Hellman** and wife **Roberta (Mitzelman) Hellman '70**. Walter is completing his Ph.D. in "The History of Science" and Roberta is the director of the County Family Planning Clinic. They have 2 sons: Matthew, 5, and Jeffrey, 15 months...**Paul Epstein** and his wife announce the birth of their first child, Scott Gimbel, August 23...**Janice Armo Seitzinger** has been named acting dean of students at Colby College, ME.

70 **Michael Herman** has been enjoying his own home improvement business since 1975...**Kevin McCann** was transferred in August from Rio de Janeiro to Mexico City to become the T&D director for the Caribbean Region for Westinghouse Electric.

71 Kids for Kids Productions, Inc., with programs in Port Jefferson, Centereach and Commack was founded by executive director **Carol Dahir...Sheldon Feldman** is opening his own practice in Kingston, NY. He's already completed a general surgical residency at NYU-Bellevue Medical Center and a Fellowship in Vascular Surgery at Newark Beth Israel Medical Center...**John Papalia** won first place in the American Academy of Podiatric Sports Medicine/Orange County Track Club 10,000 meter road race with a time of 36.40.

72 **Peter Akras** has been a public health engineer for hazardous materials since January with the Suffolk County Department of Health Services...**Stewart Eisberg** married Arlyne (Pincus) Eisberg, a SUNY-Albany graduate, in 1977 and gained employment with Publisher's Clearing House...**Stuart Emer** practices internal medicine in Albany and lives in Delmar with wife Marlene and 16-month-old son, Phillip...**Sonia Israel**, assistant director of the Sleep Disorders Clinic at VAMA, La Jolla, CA, recently received a 4-year, \$5 million grant...After teaching in Nova Scotia, Oregon and California, **Dale E. Lehman** now works at the University of Colorado...**Steven Matros** will serve as assistant programmer in the Engineering and Refining Department of Standard Oil in San Francisco...A consultant in five local political campaigns in the Boston area, **Lou Mazel** is pursuing a second master's at the Fletcher School International Law and Diplomacy...**Doris Anne McMullen** recently completed her second tour of England with Dwana Holroyd at the request of the British Broadcasting Company. They made their debut at Carnegie Hall in 1979 as duo pianists...**Dr. Michael Miller** has accepted a position with Medical Care Affiliates, a Boston-based private practice...**Bari (Malin) Myers** earned an M.B.A. from Florida Atlantic University and currently teaches math at Coconut Creek High School, FL. She and husband Scott have been married since June 1978.

73 **Martin F. Breznick** practices law in New York City...Rolls Royce is one of the international clients at the Wall Street law firm that **Mary Christin Carty** is working for...**Joseph H. Hemer** is in his fourth year of medical school performing surgical rotations in Albuquerque, NM. He received his M.A. in 1978 from New Mexico State University. Joseph's thesis was published in the May edition of the *Journal of Endocrinology*.

74 **Marie (Belfiore) Connors** and husband Jim celebrated their son, Bryan's, first birthday May 28...**John Glasseman** is a commercial pilot working as a flight instructor for Air Unlimited at OPA Locka, FL...**Jeffrey Zankel** received his L.L.M. in taxation from NYU Graduate School of Law in May.

75 **Louis DeBour** is back at school again—this time at Harvard's John F. Kennedy School of Government...**Guido Gabriele, Esq.** announced his association with the law firm of Cooper and McElligott in Deer Park...**Joseph Hallak**, SUNY O.D. optometrist, Ph.D., optical engineer, guest lecturer at L.I.J. Hospital is proud to announce the opening of his office for the practice of optometry. A special 20% off courtesy fee will be given to all SUNY Alumni Association members and their families for eye examinations and other professional services...Cape Canaveral Hospital in Cocoa Beach, FL has a new Director of Nurses: **Teresa (Lippert) Soderlund**...**John B. Wallace** has become an associate of the law firm Mazzirow, Forer, Lawrence, Cunningham, and Giden, Inc., handling general litigation cases...**Anne Williams** has been employed since 1977 by the mid-Atlantic Regional Fisheries Corp.

76 **Sharon (Grossman) Lee** accepted a position as assistant vice president at Bayly, Martin and Fay, Inc. where she will be in charge of Risk Management Service. Her first child, Rachel Elisa, was born March 13...**Robert Guss**, presently in private practice in Valley Stream, graduated from the New York Chiropractic College...**Jon Salant** is urban affairs writer for the *Albany Times Union*...**Francis X. Young** is pursuing an M.S. in chemistry at Villanova University. He is employed as a research chemist by ARCO chemical company in Newton Square, PA.

77 **Rachel Adelson** works at I.B.M. at Research Triangle Park. She earned an M.A. in journalism from the Communications Department of the University of Texas at Austin...**Mitchell Prussman** teaches chemistry at Stuyvesant High School of Science and Math in Manhattan...**Glenn M. Taubman**, who graduated with distinction from Emory University Law School in 1980, has been hired as a law clerk by the Hon. Warren L. Jones, Judge of the U.S. Court of Appeals for the 5th Circuit, Jacksonville, FL...**Angela Tortorici** is assistant budget analyst for the Mayor's Office of Management and Budget, New York City.

78 **Emilia Colon** has been accepted at Hunter College for the post master's program in clinical sociology...After spending his first two years in medical school in Lille, France, **Steven Galson** has transferred to the third-year class at Mt. Sinai School of Medicine...**David Kurtz** is music coordinator for the CBS-TV program "The Young and the Restless"...**Jacob Nachum** is in his third year at SUNY-State College of Optometry...First Lt. **Nancy E. Sendlenski** is food service and services operations officer at Pease Air Force Base, NH. Lt. Sendlenski graduated from the food service officers course in Denver, CO, and is currently pursuing an M.B.A.

79 In June, **Irwin Jacobowitz** was elected magister of WNEC School of Law's chapter of Phi Delta Phi, an international legal fraternity...Good luck to the 1981 Stony Brook Football Team from **Jeffrey Miller** who recently began his first year of study at the New York College of Osteopathic Medicine...**Cozetta Weston Walker** received a second graduate degree, M.A.L.S., from Stony Brook at the age of 57. She has taught for 39 years and is the mother of six children... **Craig Weiner** is the full-time meteorologist for WCBS News Radio 88 in New York City...**Barbara Jean Wilk** is back at Stony Brook in her first year at the Medical School...**Phyllis Zagano** is assistant professor of communications at Fordham University in the Bronx...Recently **Thomas Zatorski** joined the music faculty of Cathedral College, Douglaston.

80 **Mary Margarites** reports that she is enjoying her position as a marketing representative for the Exxon Office Systems Co...**William Sadowski** is in radar analysis and computer simulation at Hughes Aircraft Co., LA...In June, **Walter Schnell** was promoted from director of campus police to assistant vice president for security and student activities at SUNY at Farmingdale...**Charles Spielholz** is working on a Ph.D. in biochemistry at the University of Tennessee, Knoxville...**Margaret Virgadamo** works for Chase Manhattan Bank...**Susan Weinberg** received a master's in counseling psychology at Boston University in May...This fall, **Michael Wolinski** will begin work on a master's in personnel psychology at New York University...**Joan A. Germeroth** is a member of the American Association of University Women.

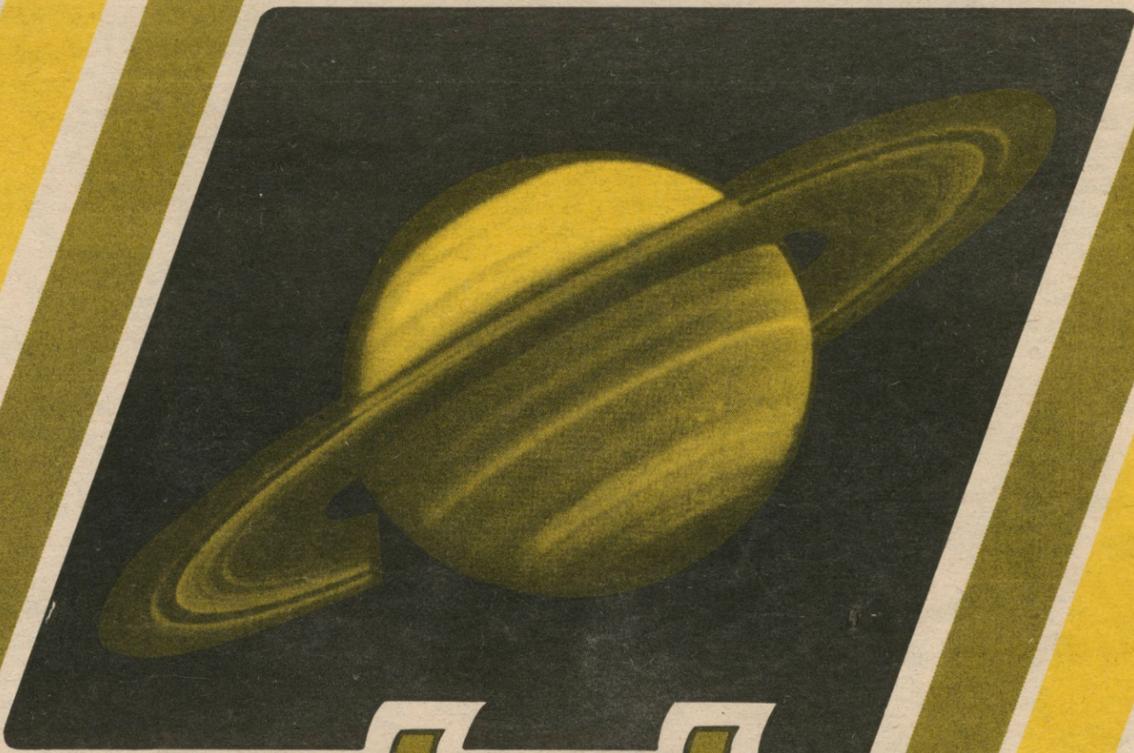
Marriages

Gordon Engel '72 to Theresa R. Smith October 10...**Joan Quartararo '73** to **William R. Atwood** March 21. Joan, who received her Ph.D. in May is now teaching at SUNY, Farmingdale. Williams works as a computer consultant at Bell Laboratories in New Jersey...**Lori Sosna '79** to Elliot Katz September 27. Lori and Elliot are now living in Stoughton, MA...**Ken Storch '75** to **Helene Sauerhoff '79** on March 22, 1981...**Jeremy Tabak '73** to Marjorie Joyce in 1978. Their daughter, Megan, is now 18-months-old. Jeremy is in residency in internal medicine at the University of Miami...**Larry Tillery '79** to Dena Yvonne Richo September 26. Dena is a store manager for Tennis Lady, Inc. Larry will pursue an M.B.A. in the fall of 1982, and expects to start law school afterwards...**Edward Weingarden '79** to Judi Kameron July 12. Ed is now attending medical school here at Stony Brook. Judi is working in the Alumni Office...**Mitchell J. Winick '76** to **Linda A. Fried '76**...**Niels J. Zussblat '80** to **Lynne B. Manzo '80**. Niels is with the U.S. Army at Ft. Bragg and Lynne attends classes at a local college.

Looking for your name?

If you have something you would like to share with former classmates and/or professors, please write to: Alumni Office, State University of New York at Stony Brook, Stony Brook, NY 11794.

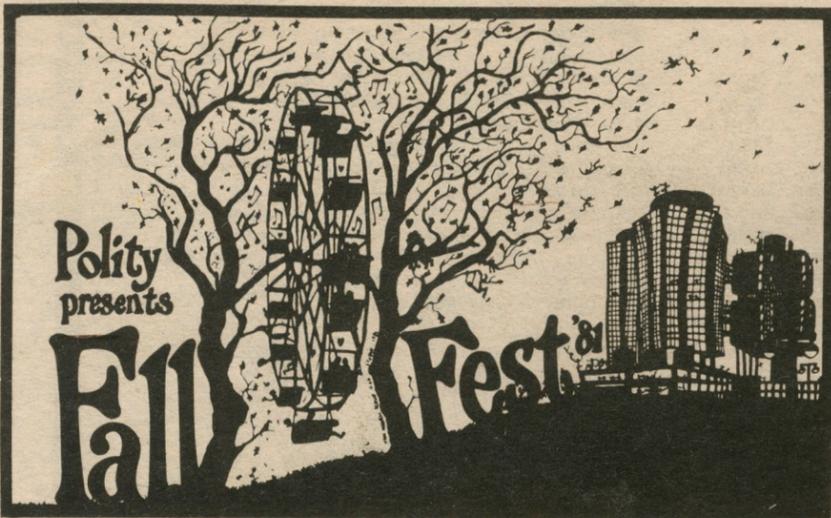
Photo by NASA



Saturn
And Beyond
(story pp. 6,7)

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Stony Brook PEOPLE



Returning to classes in early fall should be a time for celebration, reasoned Jim Fuccio '83 and Carson Tang '82.

So they went to work during the summer, and from it came Fall Fest—three days of music, big-name speakers, arts and crafts exhibits, carnival rides, fireworks, square dancing and hayrides.

Fuccio, president of Stony Brook's Student Polity Association, explained: "There was a need to have a campus wide event that students could identify with. It was important, too, for the students to identify with Stony Brook and to recognize Polity as an organization that can function in their behalf."

New and returning students, faculty and staff had a chance to get to know each other, a main goal of co-producers Tang and Fuccio. They logged attendance at 18,000.

If it's possible for a first event to become instant legend, the Sept. 11-13 activities may be just that. Post-Fest assessments ranged from merely pleased to highly complimentary.

Almost everyone seemed to back the idea of repeating Fall Fest in 1982:

President Marburger: "We have a lot of fine people here who are enthusiastically ready to help out in such events. I think you could tell that the excitement spilled over from the students to the staff as planning got underway."

James B. Black, vice president for university affairs: "The entire community joined in getting this new academic year off to a spirited, united start, but the

students—from those who conceived the idea and carried out the plans, to the thousands who attended—earned the rewards that come with such success."

Frederick R. Preston, vice president for student affairs: "The conduct of the entire affair could very well serve as a model for other campuses in the SUNY system and certainly has given Stony Brook a tremendous boost toward establishing a tradition of Fall Fests."

Tradition takes form of festival

Even as he worked to get a final cost figure (the estimates ranged up to \$45,000), Polity Pres. Fuccio was giving thought to seeking a budget appropriation for Fall Fest 1982.

Polity will cover about \$20,000 of the 1981 net cost. The rest will come from the Faculty-Student Association, SCOOP (Student Cooperative), Graduate School Organization, Student Activities Board and possibly others.

Co-producer Tang was exultant. "A student's dream has blossomed to maturity as well as reality," he wrote to President Marburger. "I'm sure the students...will always remember this event and cherish it as part of Stony Brook tradition."

Hoffman, Nadar speak

Lecturers Ralph Nader and Abbie Hoffman dispensed advice on dealing with life. Student newspaper *Statesman's* Howard Saltz reported that consumer advocate Nader "swayed between anger, sarcasm, frustration and hope." Ellen Lander of *Statesman* wrote that ex-Yippie leader Hoffman "captivated his audience by humiliation" and warned "how obviously easy society pushes its values and mores on uninformed victims."

Outside the lecture halls where they spoke, the athletic fields took on the spectrum of carnival color: four whirling rides, striped tents, students clustered around blankets, and 10 bands and entertainers.

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