

Stony Brook Faculty Solve Society's Dilemmas with Mathematics

What images come to mind when someone says the word "mathematics"? Arcane symbols on a blackboard, perhaps, or memories of long-ago math anxiety.

But today's mathematics is more likely to be found in the "real world" than the ivory tower. It's a tool used to solve societal problems, from determining the length of a patient's hospital stay to advising the phone company on how to route calls. Even the most theoretical research reflects and explains the laws of the natural world surrounding us. As James Glimm, USB's new chairman of the Department of Applied Mathematics and Statistics, puts it, "Life is a wellspring for mathematics."

Efforts to plumb that wellspring are at an all-time high, with the recent appointments of Dr. Glimm and John Milnor. Dr. Milnor will serve as leading professor and director of the university's new Institute for Mathematical Sciences.

They will build upon Stony Brook's already considerable strengths. In 1981, the Associated Research Council ranked Stony Brook's math departments as 18th in the nation. This year three students in the Department of Mathematics hold Sloan Doctoral Dissertation Fellowships, an honor "indicative of the exemplary quality of our students and our Ph.D. program," says chairman Irwin Kra.

One area for which the department is

renowned internationally, notes Dr. Kra, is geometry. "Though it can sound complicated, geometry can be applied to almost anything around you because it's the study of spaces," says Department of Mathematics professor Dusa McDuff, whose work has contributed to recent worldwide breakthroughs in the field. "A ball of yarn has geometric points on it, but it's difficult to study because those points are all messed up—they're not regular."

She continues, "I concentrate on symplectic manifolds—regular spaces that have patterns. My work produces a set of equations that can describe such things as the patterns of the planets as they revolve, or any kind of moving bodies."

Mathematical equations developed at Stony Brook are being used to solve industrial dilemmas. Faculty have consulted with a number of companies in an area known as operations research.

"Operations research tells you how to optimize activities of an organization," says Alan Tucker, professor of applied mathematics. "Mathematics can guide you as to how to route trucks to make deliveries in the shortest amount of time, or can tell a phone company how to route thousands of calls per second." Dr. Tucker has consulted with American Telephone and Telegraph (AT&T) on how to teach problem-solving techniques and reasoning skills to employees who write complex computer programs.

Thomas Sexton uses mathematics to help hospitals reduce length of stays for

their patients. Dr. Sexton, a professor at the university's W. Averell Harriman School for Management and Policy, obtained his M.S. and Ph.D. degrees from USB's Department of Applied Mathematics.

"Hospitals used to be reimbursed according to what a patient's stay cost the hospital," he explains. "Now primary diagnosis is the basis for reimbursement and the hospital gets a flat fee. We plug variables such as patient demographics, severity of illness and prior medical conditions into equations that help hospitals manage patient stays more efficiently." Dr. Sexton is conducting the study with Alan Leiken, associate professor in the Department of Allied Health Resources, and Arlene Nolan, research associate in the Harriman School's Health Services Research and Management Unit.

For the past two years, Dr. Sexton, working with Dr. Leiken and Ms. Nolan, has examined hospital mortality rates for the Nassau-Suffolk Hospital Council, and is extending the study to hospitals throughout New York state. In addition, he is seeking ways to mathematically predict what the long-term effects of the AIDS virus will be. "What will it look like in 10, 20, 50 years?" Dr. Sexton asks. "In this case, we're working with variables like sexual practices, survival rates and length of time between infection and appearance of symptoms." Collaborating

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ALBANY REPORT

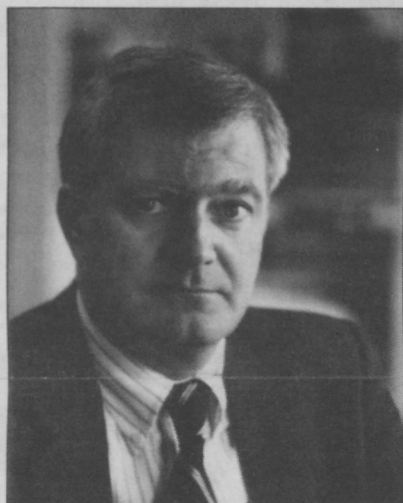
In this space over the next several weeks, President John H. Marburger will update the university community on the progress of deliberations in Albany regarding the 1989-90 budget.

In recent weeks, I have been meeting with state legislators to inform them of the consequences of the 1989-90 executive budget proposal. Our representatives are supportive of the case we are presenting, and there is a sense within SUNY that we are making progress.

Nonetheless, it is still too early to predict what the legislature ultimately will approve as its final budget.

SUNY already has absorbed \$10 million in cuts in the current fiscal year, and now is being asked to absorb cuts totalling an additional \$47 million in 1989-90—a reduction which can be achieved only by cutting deeply into academic programs. As Chancellor Johnstone has testified, the executive budget proposal translates into the system-wide elimination of as many as 1000 positions and 2000 courses.

Many legislators—including Sen. Kenneth LaValle, chairman of the Senate Higher Education Committee, and Sen. James Lack—have indicated that they regard cuts of this magnitude as intolerable. They know the importance of Stony Brook's contributions to Long Island, and are long-time friends of the university. From my meetings with other Long Island legislators—such as Assemblymen Robert Wertz, John Flanagan, Philip Healy and Joseph Sawicki—I know that they, too, are

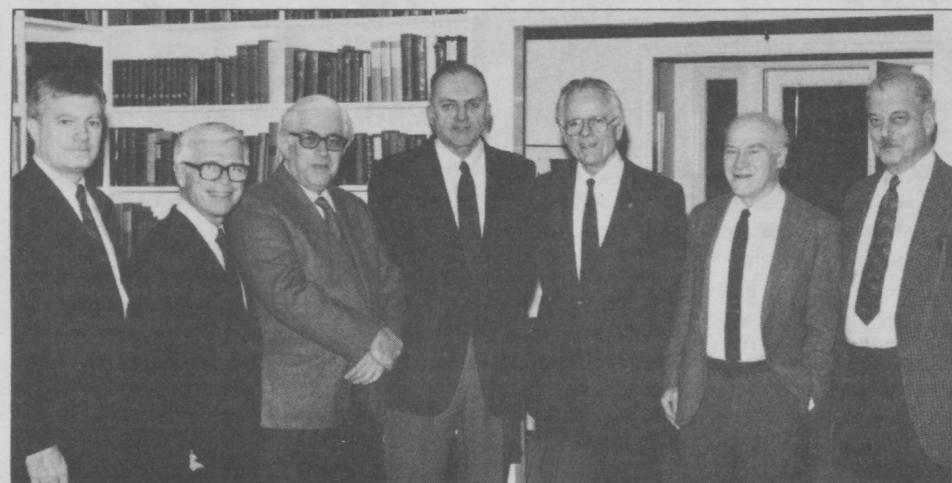


John H. Marburger

keenly aware of Stony Brook's role in the region, and are supportive of our position.

Direct contacts by students, alumni, parents, faculty and staff are helping to focus the attention of legislators on SUNY's contributions and needs. Last week, for instance, Stony Brook representatives will joined colleagues from around the system in Albany for "SUNY Day" and "UUP Day." Two weeks ago, nearly 50 faculty and students in the School of Dental Medicine participated in an Albany visit sponsored by the UUP.

Those who wish to contact members of the New York State Legislature are encouraged to do so. Director of Legislative Affairs Janice Coughlin (632-6302) can provide names and addresses of key legislator to whom correspondence should be directed.



At a recent dinner, President John H. Marburger paid tribute those USB employees who have served for 30 years. From left; President Marburger; William Lister, professor of mathematics; Sidney Gelber, professor of philosophy; Henry Von Mechow, professor of physical education and special assistant to the vice president of Campus Operations; Francis Bonner, professor of chemistry; Ruben Weltsch, professor of history and acting head of the music library; and Richard Levin, professor of English.

ALMANAC

USB will host a conference on floatable waste in the ocean
March 21 - 22.

2

A new program enables nursing students to earn extra money as they learn.

3

THIS WEEK

Larry Heinemann, author of *Paco's Story*, will read from his work
March 29.

4

Dr. Yurii Demkov of the Soviet Union will speak on "Perestroika - Glasnost: A View from the Inside,"
March 27.

4

ALMANAC

BRIEFS

Employee Relations Council Sponsors Photography Show

A four day photography exhibition featuring the work of USB faculty and staff will be on view April 3 - 6 in the Alliance Room in Melville Library.

The show, sponsored by the Employee Relations Council, will recognize the photographic accomplishments of USB employees, and will provide participants with an opportunity to share their best pieces with co-workers and the general public.

Three local photographers will jury the show; Vinnie Fish, a Stony Brook resident whose work has been published in numerous publications; Lester Lefkowitz, a corporate/industrial photographer who previously taught in USB's Department of Art and the Department of Engineering; and Stephen Rose, design director of Greenleaf Design Studio in Miller Place.

The opening reception for the show will be Tuesday, April 4 from 3:30 - 6 p.m. in the Alliance Room. At 4 p.m., Don Idhe, dean of Humanities & Fine Arts will present the awards. Prizes will include three 35 mm cameras.

Deadline to submit photographs is Tuesday, March 28. For information call Cynthia Pedersen, 632-6136.

Recent Stony Brook Grads to Screen Mets for Treatment

Two Long Island physical therapists have been selected to screen New York Mets players for preventative or corrective physical therapy.

Donald O'Brien and Brian Davis, both 1986 graduates of the physical therapy program at the University at Stony Brook, are co-directors of the Foot/Ankle Clinic of the Southside Health Institute at Southside Hospital in Bayshore.

They will go to spring training in Florida for three days to conduct the one-hour assessment of each at-risk player and design and construct shoe inserts to adjust the biomechanics of the feet.

This is the first time physical therapists will be assessing baseball players in an attempt to prevent injuries. Mr. O'Brien says he thinks his efforts should cut down

on the number of injuries that will force players to miss games.

For example, he notes, an injury such as Keith Hernandez' hamstring pull last year could be detected and treated before it becomes a serious problem.

Treatment should make players' activities more efficient. It should make them less prone to overuse injuries and should correct muscle imbalances, according to Mr. O'Brien.

Scholarship Available for Women Returning for Science Degrees

Women who are returning to school to study the sciences, engineering or mathematics can apply for a \$1,000 Renate W. Chasman Scholarship.

Set up by the Brookhaven Women in Science organization at Brookhaven National Laboratory, the award was established to encourage Long Island women to continue their formal studies in the specified fields.

Applicants must be enrolled in or have applied for a degree-oriented program at an accredited institution at the junior, senior or first-year graduate level at least half-time. They must be residents of Nassau or Suffolk counties.

The deadline is June 1. Applications are available from: Chasman Scholarship Fund, P.O. Box 183, Upton, NY 11973 or by calling 282-3336.

SEFA/United Way Campaign Tops Last Year's Mark

The recently concluded United Way/State Employees Federated Appeal (SEFA) campaign will give two campus organizations a financial boost.

Eligible for the first time to receive campaign funds, Stony Brook Child Care Services and the University Hospital Auxiliary will be getting \$8,028 and \$4,218 respectively from the SEFA/United Way campaign. The monies reflect donations made from both campus campaign participants and State employees from off-campus who contributed through SEFA's Long Island campaign.

"The final combined tallies of SEFA and United Way won't be in for a while," said Alan Entine, main campus campaign coordinator and manager of employee/labor relations. "Last year we raised \$53,000 and this year, the SEFA totals alone represent a contribution of more than \$50,000. When the numbers are in, we will have probably exceeded last year's level which is quite an accomplishment considering the economic climate. We are pleased and grateful that people have maintained their giving levels in the face of high taxes and other pressures on their pocketbooks."

Officials of both the Stony Brook Child Care Services and the Auxiliary were equally pleased.

"We were just thrilled with the response," said Lucille Oddo, Child Care Services executive director. "It really heartened us to know there was support out there. We're most appreciative."

Uta Dee, president of the Hospital Auxiliary noted that all monies go directly to providing services to patients. Though the Auxiliary has not yet earmarked the funds for specific projects, Ms. Dee hopes to see some of the money go toward a

program in which the Auxiliary provides flowers for long-term patients who have no families. "It's something nobody can provide but us," she says, and fulfills the Auxiliary's commitment to tending to the physical and emotional needs of the ill.

Chewing Tobacco Increases Incidence of Oral Lesions

Spring training might signify more than the start of baseball season for some young athletes. Seeing many of their heroes chewing on a wad of tobacco day after day, week after week, youngsters might assume that is part of the image they want to project.

A dentist at the University at Stony Brook, however, is trying to dispel that myth. Chewing tobacco is not a safe alternative to smoking, according to a study by Dr. Curtis Creath of the School of Dental Medicine. It only shifts the site of resulting cancer from the lungs to the mouth.

He wants to discourage young athletes from ever indulging in the habit. After studying the mouths of 1,100 high school football players in Birmingham, Ala., he found that those who chewed tobacco regularly were far more likely to develop leukoplakia, or thickened, white patches of tissue that could become cancerous, on the inside of their cheeks or lips where the tobacco is placed.

He found no difference between use of finely ground snuff as opposed to the shredded leaves of "chew." However, Dr. Creath did find a wide variation in the effects of different brands of both. He declined to name the specific brands, pending further documentation.

Users of one brand were 21 times more likely to develop leukoplakia than non-users, compared to chewers of another brand who were six times more likely to develop these lesions.

About 10 percent of the athletes in the study used chewing tobacco regularly. Of those, 13 percent had leukoplakia, compared to half of 1 percent of people

who don't chew tobacco developing leukoplakia.

Users of these products exhibited the pre-malignant condition after an average of only three and a half years of tobacco use. Dr. Creath found no correlation between the hours actually spent chewing and the development of oral lesions, but did find an increase in leukoplakia with the number of cans or pouches of tobacco consumed each week and the number of years tobacco was used.

The amount of fresh tobacco consumed is more important than the total number of hours it was used each day, he found.

USB to Host Conference on Floatable Waste March 21-22

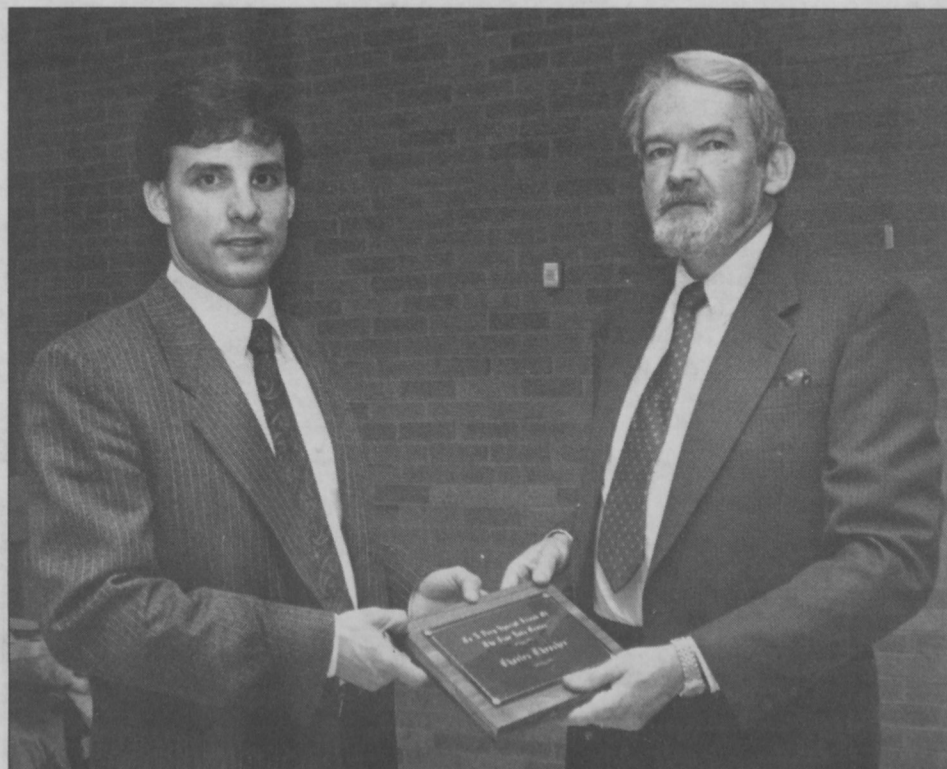
As the weather warms, thoughts turn to last summer's panic over fouled beaches. Could it happen again? If it does, will Long Island's economy recover?

These and other questions will be explored at a conference on "Floatable Wastes in the Ocean", to be held at USB March 21-22. It will be presented by the Waste Management Institute of the University's Marine Sciences Research Center.

The conference will summarize what is currently known about floatable and medical wastes: where they come from, what they are and how they get to our beaches. Social, economic and health impacts on the region will be discussed, as well as management strategies for dealing with floatables.

Scheduled panel topics are "Economic and Social Impacts on Fisheries, Tourism and Marine Recreation," "Sources and Transport of Floatable Wastes," "Public Health and Safety" and "Solutions for Rebuilding Public Confidence and the Media's Role".

The conference will be held 9 a.m. to 5 p.m. March 21, 9 a.m. to 5:30 p.m. March 22, in Room 102 of the Javits Lecture Center. For more information, call the Waste Management Institute at 632-8704.



Alan Inkles (left), director of production at the Staller Center for the Arts, presents a plaque to Charles I. Thrasher, regional vice president of DAKA Inc., for his long time support of the center at a reception in his honor.

Currents Weekly Update, serving the faculty, staff and students of the University at Stony Brook, is published 30 times during the academic year by the Office of Public Relations, 322 Administration Building, University at Stony Brook, Stony Brook, N.Y. 11794, (516) 632-6310. On the last Wednesday of each month, *Weekly Update* appears in an expanded *Currents* edition which, for an annual mailing fee of \$3, is made available to alumni, parents and others with an interest in USB news and events. Checks should be made out to the University at Stony Brook.

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THIS WEEK *continued from page 4***Event Listings**

To be included in *This Week*, events must be submitted to *Currents* calendar editor 12 days prior to publication. Listings for the April 5 issue must be received by Friday, March 24.

We remind all event sponsors that arrangements for parking should be made with Herbert Petty, assistant director for public safety at 632-6350.

NOTICES

Elizabeth D. Couey Award. The Union Advisory Board and the Department of Student Union & Activities are soliciting nominations for the award. It is given to the graduating senior who has contributed to the improvement and growth of student services and student programs and demonstrates the ability to listen with understanding, guide without boundaries, give and take with love, and grow with each passing day. Deadline is March 29. For information call 632-6820.

Senior Commencement Speaker. One graduating senior will be selected to address the graduating class. Candidates must submit a typed, double spaced copy of their speech of 5 minutes to Carl Cohen, Room 226, SB Union, 632-6823. Deadline is March 27.

Senior Leadership and Service Awards, are given to graduating seniors who have made an outstanding contribution to campus life through leadership or community service. Faculty and staff are asked to nominate seniors they believe qualify for the award. For information contact Carl Cohen, Room 266, SB Union, 632-6823. Deadline is March 27.

First Annual Roth Quad Regatta, April 28, 4

p.m. on Roth Pond. Cardboard boat race open to all students, faculty and staff. Prizes given for first to cross the pond and best looking boat. All entries must be registered. Sponsored by Roth Quad Council and Building Legislatures. For information call Curtis Epstein, 632-2673 or John Rickerman, 632-2917.

Discount Movie Tickets are available at \$3.50 to United Artist movie theaters and \$4 tickets are available to the Brookhaven and Commack Multiplex theaters. Available from Cynthia Pederson, between 1 - 3 p.m., Wednesdays and Fridays in Room 108, Humanities Building.

I-CON VIII, the Northeast's largest convention of science fiction, science fact and fantasy. March 31 - April 2. Special guests include Michael Dorn (Lt. Wolf of *Star Trek, The Next Generation*) Gary Gygax, creator of Dungeons and Dragons, and award winning authors Frederick Phol, Hal Clement, Barry Longyear, Joe Haldeman and Pamela Sargent. For information call 632-6460 between 1 - 5 p.m.

Second Annual Undergraduate Research & Creative Activities Symposium, April 15. "Today's Scholarship Shaping Tomorrow's World." Keynote speaker: Dr. Paul C. Lauterbur. Sponsored by the Undergraduate Research and Creative Activities Program. For information call 632-7080.

Tickets to Jerome Robbins' Broadway, for September 12 or 13 show, \$70 for first mezzanine seats and round trip bus fare. For information call Cynthia Pedersen, 632-6136.

Student Blood Drive, Wednesday, April 5, 10 a.m. - 9 p.m., USB Gym. Juice, cookies, bagels, pins and balloons will be given to all donors.

Program to Let Students Earn While They Learn

Nursing students can earn salaries while they gain clinical experience at University Hospital, under a new program initiated by the School of Nursing at the University at Stony Brook in an effort to help alleviate the critical shortage of nurses across the U.S.

This is believed to be the first work/study program to provide simultaneous work and study for nursing students in the country. Students in the School of Nursing will be offered simultaneous employment as clinical assistants in hospital units appropriate to their nursing courses.

Career mobility is a big factor in attracting applicants such as LPNs who might like to advance their careers with further education while continuing to earn a salary, says Rose Meyers, assistant dean of USB's School of Nursing.

Students in the traditional 18 - 22 year old range who couldn't otherwise afford to go to college are also expected to be interested. Their salaries at University Hospital would more than cover their tuition, Ms. Meyers said.

The "co-op" approach of combining work and study is not new to education, but the application is new to the field of nursing. Working will extend the length of time to complete the bachelor of science program by one year. As is true for all applicants to the professional schools within the Health Sciences Center at USB, those applying for admission to this program must have completed two years of college to qualify.

The 20-hour work week will include days, evenings and nights over the course of each year. In addition to regular salary increases, participants will get comprehensive health, dental and prescription drug insurance benefits for themselves and their dependents and membership in a retirement plan.

Applications are now being accepted for a pilot group which will begin in September. Further information can be obtained from the School of Nursing, Level 2 Health Sciences Center, 444-3200.

■ Tamar A. Sherman

Faculty Solve Dilemmas

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with Dr. Sexton on the AIDS study is graduate student Jennifer Feinstein.

Steve Finch, professor of applied mathematics, has also begun to examine the effects of AIDS. His work will focus on children of AIDS patients, children who may require a number of social services even if they don't have the disease themselves. Just concluded is a statistical study by Dr. Finch and two colleagues at Columbia University, on foster children and sexual abuse.

Mathematical solutions developed by James Glimm, chairman of the Department of Applied Mathematics, and

his co-workers may someday tell petroleum engineers where to find oil.

"We can understand oil reservoirs in terms of locations of fluids and flow patterns," Dr. Glimm explains. "This information can be predicted through mathematical and computational models. That will lead to better engineering decisions about the recovery of oil."

Even within mathematics itself, there are questions to be answered. Department of Mathematics chairman Irwin Kra notes, "There is a tremendous crisis in Ph.D.s specializing in math in this country. We hope to try to address that."

■ Sue Risoli

University Policies and Procedures

As a service to the university community, Currents Weekly Update periodically will reprint policies that have been revised by the Administrative Manual Committee and approved by President John H. Marburger. Following are revised policies regarding the Freedom of Information Act and information regarding legal proceedings.

Freedom of Information Law

Issued By: Office of the Vice President for Campus Finance and Management
Replaces: Procedure 105, October 1974
Approval Date: February 1988

The "Freedom of Information Law," Article 6 of the New York State Public Officers Law, provides in part, "that government is the public's business and that the public, individually and collectively and represented by a free press, should have access to the records of government in accordance with the provisions of this article."

In compliance with this law, the university will provide, on written demand, access to documents, in order to increase public understanding and participation in government.

Records Access Officer

The Vice President for Campus Finance and Management or designee is the Records Access Officer of the university. To gain access to university records, the applicant should write to the Records Access Officer, Room 221, Administration Building, State University of New York at Stony Brook, Stony Brook, New York 11794.

The records requested should be clearly identified or described. The Records Access Officer will then make appropriate written response to the request. The university may charge a fee of \$.25 per page for copies of documents.

Records to Which Access Will be Provided

In general, the kinds of documents the law addresses are inter-agency or intra-agency materials that are "statistical or factual tabulations or data, instruction to staff that affect the public, or final agency policy or determinations."

The law provides that there may be denial to access to records that: a) are specifically exempted from disclosure by State or federal statute; b) if disclosed would constitute an unwarranted invasion of personal privacy; c) if disclosed, would impair present or imminent contract awards or collective bargaining negotiations; d) are trade secrets; e) are compiled for law enforcement purposes and which, if disclosed, would interfere with investigations or judicial proceedings; f) if disclosed, would endanger the life or safety of any person; g) are examination questions or answers requested prior to final administration.

Disposition of Requests for Access to Public Records

Upon receipt of a written request for copies or examination of records, the Records Access Officer will respond within five business days. After review and inspection, the Records Access Officer will make arrangements for the applicant to examine records, forward copies of documents requested, as mandated by the law, or deny access to the

requested records in part or in the entirety.

If the request is denied, the applicant has the right to appeal to the Vice Chancellor for Governmental and University Relations, State University Plaza, Albany, New York 12246.

Examination and Inspection of Records
Prior to inspection or examination of records, an "Applicant for Public Access to Records," USB 430, must be filed with the Records Access Officer. (Contact the Records Access Officer for a copy of the application.)

Information Regarding Legal Proceedings

Issued By: Office of the Vice President for Campus Finance and Management
Replaces: Policy 12, May 1977
Approval Date: February 1988

The university receives periodic requests for information on and interpretations of its academic and administrative policies from individuals, government agencies, private organizations, and the media.

The responsibility for responding to such inquiries rests with the Office of the President, the Vice President for Campus Finance and Management, the Vice President for University Affairs, or others specifically designated to handle the inquiries. This responsibility is particularly important when requests for information are made in relation to pending or ongoing litigation, grievance proceedings, arbitrations or other matters involving formal claims against the university.

Service of Legal Documents

Service of any subpoena, summons or complaint in which the State University of New York at Stony Brook, and/or the State University of New York, and/or the State of New York is a named defendant, may be accepted only by the Vice President for Campus Finance and Management or designee.

Any employee who is personally named on a subpoena, claim or summons should accept service and immediately contact the Office of the Vice President for Campus Finance and Management for instructions. The New York State Public Officers Law, Section 17, in most instances, affords defense and indemnification to State employees who are personally sued on matters directly related to their employment. Within five days, a written request for such defense must be forwarded to the Office of the Attorney General, along with a copy of the papers that were served. The Office of the Vice President for Campus Finance and Management is responsible for providing the appropriate notification to the Attorney General and assisting the employee or institution as required.

Legal documents may not be accepted on behalf of another individual without that person's written authorization.

Information subpoenas must be forwarded for processing to the Office of the Vice President for Campus Finance and Management.

All personnel are expected to cooperate with the SUNY Office of the University Counsel and the New York State Attorney General's Office in their representation of the State, the University, and/or individuals.

THIS WEEK

MARCH 22 THROUGH MARCH 29

WEDNESDAY

MARCH 22

Pediatric Grand Rounds Seminar, "Injury Prevention," Dr. Sharon Inkeles, instructor of pediatrics. 8 a.m., Lecture Hall 6, Level 3, Health Sciences Center.

Seminar, "Mapping the Human Genome with Genetic Markers: A Progress Report and Clinical Applications." Dr. Helen Donis-Keller, senior scientist, Collaborative Research, Inc., 2 p.m. Room 038, Life Sciences Building.

Conference, "Social, Economic & Public Health Implications of Floatable Waste in the Ocean." Registration \$40 one day. Room 102, Javits Lecture Center. For information call Sheila Sharnon, 632-8704.

THURSDAY

MARCH 23

Astronomy Colloquium, "Very High Energy X-Ray Emission from Hercules X-1," Dr. Andrew Szentgyorgyi, Columbia University. 11 a.m., Room 450, Earth & Space Sciences Building. Refreshments will be served. For information call 632-8221.

FRIDAY

MARCH 24

Chemistry Colloquium, "An Interesting Application of the Host-Guest Paradigm: Design of Organic Materials for Optical Computing," Dr. David M. Walba, University of Colorado. 4 p.m., Room 116, Old Chemistry Building.

SATURDAY

MARCH 25

Men's Lacrosse, vs. Fairfield, 1 p.m.

MONDAY

MARCH 27

Al-Anon Meeting, Room N-110, Social & Behavioral Sciences Building. Meetings held every Monday. For information and time of meeting call 632-3395.

Flea Market, 9 a.m. - 4 p.m., USB Union Bi-Level. Sponsored by the Faculty Student Association and the Department of Student Union and Activities. Held every Monday and Thursday during academic year.

Astronomy Colloquium, "Star Formation and the Angular Momentum Problem," Dr. Steve Ruden, University of California at Berkeley. Noon, Room 450, Earth & Space Sciences Building.

Department of Microbiology Seminar, "Interactions Between Oncogenes and Antioncogenes: The Retinoblastoma Protein Binds Adenovirus E1A," Dr. Jonathan Horowitz, Whitehead Institute. Noon, Room 038, Life Sciences Laboratory.

Special Physics Department Seminar, "Perestroika - Glasnost: A View from Inside," Dr. Yuri Demkov, University of Leningrad. 2 p.m., Room C-120, Graduate Physics Building.

One Session Workshop, "Study Skills." Sponsored by the Group Shop and the University Counseling Center. Restricted to USB faculty, students and staff. Advanced registration required. For information call 632-6715.

TUESDAY

MARCH 28

Aerobic Swim, 7:15 - 8:30 a.m., Gym Pool. Tuesdays/Thursdays through the semester. To register call Marilyn Zucker, 632-6136.



Coming April 1: "The Rising Star Concert: Marvis Martin" can be seen at 8 p.m. at the Staller Center for the Arts.

Psychiatry Grand Rounds, "Mother-Infant Interaction," Dr. Everett Waters, associate professor of psychology. 11 a.m. - 12:30 p.m., Lecture Hall 4, Level 2, Health Sciences Center.

The Humanities Institute Distinguished Visiting Lecturer, Barbara Johnson, Harvard University. "Moses and Intertextuality: Sigmund Freud, Zora Neal Hurston and the Bible." Part of the Provost's University Visiting Scholar Program. 4 p.m., Room 137, Harriman Hall.

Neurobiology and Behavior Seminar, "Retrograde Transneuronal Cell Body Labeling Revealed by Viral Infections of the Sympathetic Nervous System," Dr. Arthur D. Loewy. 4 p.m., Room 038, Life Sciences Building.

Men's Tennis, vs. Wagner, 4 p.m.

Women's Softball, vs. St. Francis, 4 p.m.

Academic Advising, 7 - 10:30 p.m., G Quad, O'Neill College, Quad Council Office, Room G-119. Kerie Stone, peer adviser. Bring grade report. Meets every Tuesday through academic year.

Film, "Salaam Bombay," 7, 9:30 p.m., USB Union Auditorium. \$1, 50 cents with SBID.

Rutgers Exchange Concert, 8 p.m., Recital Hall, Staller Center for the Arts.

One Session Workshop, "Stress Management." Sponsored by the Group Shop and the University Counseling Center. For students only, advance registration required. For information call 632-6715.

WEDNESDAY

MARCH 29

Pediatric Grand Rounds Seminar, "Hypospadias," Dr. Robert J. Wasnick, assistant professor of urology. 8 a.m., Lecture Hall 6, Level 3, Health Sciences Center.

Noontime Recital, graduate students in the Department of Music. Noon, Recital Hall, Staller Center for the Arts.

Men's Tennis, vs. Baruch, 3:30 p.m.

Doctoral Recital, Paul Basler, horn. Featuring works of Hindemith and Davies. 4 p.m., Recital Hall, Staller Center for the Arts.

Department of Mathematics Lecture, "Monopoles," Dr. Clifford Taubes, Harvard University. Tea will be served at 3:30 p.m., lecture begins at 4:30 p.m., Room S-240, Mathematics Building.

Contract Bridge, lessons, 7 p.m., open play, 8 p.m., USB Union Ballroom. Meets every Wednesday through March.

Academic Advising, 7 - 11 p.m., Kelly Conference Room (opposite the Kelly Quad Office). James Nguyen, peer adviser. Bring grade report. Meets every Wednesday during academic year.

Poetry Reading, Larry Heinemann, author of *Paco's Story*. 7:30 p.m., The Poetry Center, Room 239, Humanities Building. For information call 632-7373.

Long Island Center for Italian Studies Film Festival, "Bread and Chocolate," an episodic movie of an Italian worker in Switzerland. Discussion by Antonio Toscano, professor of Italian, will follow. 7:30 p.m., Rosebud Theatre, Room 3220, Staller Center for the Arts. For information call 632-7444.

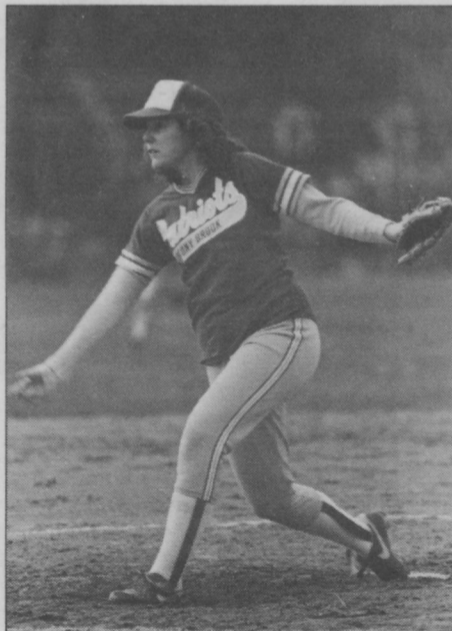
One Session Workshop, "The Psychological and Social Impact of AIDS." Sponsored by the Group Shop and the University Counseling Center. Restricted to USB faculty, students, and staff. For information call 632-6715.

One Day Conference, "Power and Violence in Relationships," one day conference designed to explore power and victimization. Keynote speaker, Robin Warshaw, author of *I Never Called it Rape*. Fee \$12 non-students, \$2 students with meal card, \$6 students without meal card. For information call 632-6705.

ART EXHIBITS

March 22 - April 5: One-person exhibit of the work of New York artist Robert Kushner. "Robert Kushner, Silent Operas" will include 10 large scale figurative paintings. Staller Center Art Gallery. For information call 632-7240.

March 27 - April 5: Student Exhibition: Sarah Friedland and Rick Teng. SB Union Gallery. For information call 632-6828.



Roe Molinelli and the women's softball team square off against St. Francis Tuesday at 4 p.m.

RELIGIOUS SERVICES

Jewish:

Friday evening:
Services held in Roth Quad Dining Hall, Lower Level.

Saturday morning:
Stony Brook Havurah (conservative/liberal) - 9:30 a.m., Roth Quad Dining Hall, Lower Level.

Stony Brook Hebrew Congregation (orthodox) 9:30 a.m., Room S-235, Mathematics Building.

Jewish text study group (Bible, Talmud) Thursday, 4 p.m., Room 157, Humanities Building. For information call 632-6565.

Muslim:

Friday Congregational Prayers (Salat Al-Jamma'a), 1 p.m., Room 214, USB Union. All Muslims welcome.

Islamic Study Circle (Halqa), Friday evenings, 6:30 p.m., Interfaith Lounge, Room 157, Humanities Building. Refreshments served. All are welcomed.

Protestant:

Wednesdays, 12:30 p.m., Interfaith Lounge, Room 157, Humanities Building.

Roman Catholic:

Sunday Mass: 9:30 a.m., Hospital Chapel, Level 5, Health Sciences Center; 5 and 7 p.m., Peace Studies Center, Old Chemistry Building.

Weekday Mass: Monday and Wednesday, 5 p.m., Interfaith Lounge, Room 157, Humanities Building; Monday, Tuesday, Wednesday and Friday, noon, Hospital Chapel, Level 5, Health Sciences Center.

Prayer Service: Tuesday and Thursday, noon, Interfaith Lounge, Room 157, Humanities Building; Thursday (interfaith), noon, Hospital Chapel, Level 5, Health Sciences Center.

Sacrament of Reconciliation: Mondays, 4 - 4:45 p.m., Room 167, Humanities Building.

HOURS

Barnes & Noble Bookstore, 632-6550
Monday and Tuesday, 9 a.m. - 7 p.m.
Wednesday and Thursday, 9 a.m. - 5 p.m.
Friday, 9 a.m. - 4 p.m.
Saturday, 10 a.m. - 2 p.m.

USB Gym, 632-7200
7:30 a.m. - 11 p.m.

Library, 632-7110
Reference, Commuter Lounge, government documents, current periodicals and maps:
Monday - Thursday, 8:30 a.m. - midnight
Friday, 8:30 a.m. - 8 p.m.
Saturday, 10 a.m. - 6 p.m.
Sunday, noon - midnight

Reserve:
Monday - Thursday, 8:30 a.m. - midnight
Friday, 8:30 a.m. - 5 p.m.
Saturday, 10 a.m. - 6 p.m.
Sunday, noon - midnight

Circulation, Stacks
Monday - Thursday, 8:30 - 11 p.m.
Friday, 8:30 a.m. - 8 p.m.
Saturday, 10 a.m. - 6 p.m.
Sunday, noon - 11 p.m.

For Music and Science Libraries, Special Collections, call library information for hours.

Health Sciences Library
Monday - Thursday, 8:30 a.m. - 11 p.m.
Friday, 8:30 a.m. - 9 p.m.
Saturday, 8:30 - 5 p.m.
Sunday, 1 - 9 p.m.

University Club, for reservations, call 632-7069. Monday through Friday, 11:45 a.m. - 2 p.m.

Staller Center for the Arts Gallery, 632-7240. Tuesday through Saturday, 12 p.m. - 4 p.m.

Staller Center for the Arts Box Office, 632-7230. Tuesday through Friday 10:30 a.m. - 4:30 p.m. and one hour before performances.

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