

Cornell Chronicle

Volume 15, Number 3

Thursday, September 8, 1983



A joust over water, by Pi Kappa Alpha, was only one event of last Saturday's 'Fun in the Sun.' Other photos on page 7.

Private Gifts to University Set a Record

Gifts totaling more than \$61.5 million made 1982-83 the most successful year in the history of private support for Cornell University, according to Carol L. O'Brien, director of university development.

Between July 1, 1982, and June 30, 1983, the endowed and statutory colleges at Ithaca received \$43.2 million and the Medical College at New York City received nearly \$18.3 million. The combined total for the fiscal year was \$61,539,705.

Cornell's previous high, \$54.6 million, came in 1980-81, the last year of the Cornell Campaign in which the university raised \$250 million over five years.

O'Brien cited several reasons for the latest success: "growth in gifts of equipment and property, a rally in the stock market, and several exceptionally large gifts and bequests."

She pointed to a \$1 million gift, half of a \$2 million commitment, from the Joseph N. Pew Jr. Charitable Trust toward construction of a new geological sciences building; a \$1.7 million bequest from the estate of William R. Waldron, a 1917 Cornell graduate, designated by Cornell for the writing program; a \$1 million bequest from the estate of Margaret Sussman, in honor of

her father, Otto, to the Medical College, and a \$750,000 gift from the Hewlett-Packard Corp. for equipment for the College of Engineering.

Part of the increase in private support at the Medical College, O'Brien said, is a campaign at the Medical Center that began in 1982 and seeks \$125 million over three

years.

She praised the "exceptional efforts" of Cornell faculty, deans and administrators who assisted in making this past year a record-setter.

"These encouraging increases in private support grow more important as we identify the extraordinary needs Cornell has

today and will continue to face in the future," O'Brien said. She mentioned student financial aid, academic program and faculty support and "support for the quality of campus life" as most pressing.

Through gifts to endowment and for facilities, Cornell is "building for the future," she said. "Support such as this enables the university to make progress on capital needs."

O'Brien said she was also "greatly pleased" that gifts for current operations, made primarily through the Cornell Fund, were up 13.3 percent from 1981-82. The alumni annual giving effort reached a new high, \$9.1 million, up \$1 million from the previous year.

Matching gift support from corporations whose employees give to Cornell topped \$1.1 million for the first time. Gifts from classes holding five-year reunions totaled \$4.6 million, up more than \$500,000 from 1981-82.

Total giving from individuals to Cornell was \$36.1 million, with \$16.3 million from alumni and \$19.8 million from friends.

Gifts to Cornell from corporations reached a record \$12.8 million. The previous high had been \$9.9 million in 1981-82.

'Blue Light' Escorts Are Sought

Student, faculty and staff volunteers are being sought for the university's "Blue Light Escort Service," to accompany students across campus at night as a deterrent against rapes and other possible assaults.

As of Sept. 1 there were 28 volunteers for the service which, in order to run effectively, should have at least 50, according to Public Safety Lieutenant Alex von Gordon, manager of the program.

Persons interested in volunteering their services should contact von Gordon at G-2 Barton Hall or call him at 256-7406.

The service is scheduled to start Thursday, Sept. 8, and runs from 10:30 p.m. through 12:30 p.m. every day during the fall term.

Von Gordon said that since the program was instituted in February 1982 there has been only one relevant incident reported on campus, an attempted rape.

Because of this success, however, there has been decreased interest in volunteering for the program, he said.

Cornell Wins OSHA Case on Asbestos Ruling

Administrative Law Judge Overturns Citation in Library Case

Administrative Law Judge Paul A. Tenney has overturned a citation by the Occupational Safety and Health Administration (OSHA), which had charged Cornell with violations of federal health and safety standards during a 1982 asbestos removal project in Uris Library.

Commenting on the OSHA ruling, Director of Employee Relations Cecil L. Murphy said, "The decision of Judge Tenney finds the university without fault in the Uris asbestos removal project and completely refutes the allegations of the United Auto Workers. Earlier the union had described the university's actions in this matter as 'attempts to deny the union and affected employees (their) rights...and an attempt to trivialize and undermine employee safeguards.' Judge

Tenney found no truth to such allegations. Instead the judge concluded that the university met its obligations to safeguard the health and well-being of its employees completely and responsibly. Further, the judge found that the university gave reasonable notice to the union but that the union did not act upon it."

The OSHA citation, which was prompted by a complaint from United Auto Workers Local 2300, charged the university with violating federal Occupational Safety and Health Act by allegedly failing to conduct initial monitoring to determine whether every employee's exposure to airborne asbestos fibers was below prescribed limits, and by allegedly failing to allow employees or their representatives to

observe the monitoring.

The OSHA citation was issued Oct. 15, 1982. Since then Cornell has contested the citation through the regional OSHA office and through the Occupational Safety and Health Review Commission.

In the ruling issued Friday, Aug. 29, Judge Tenney said, in part, "In conducting the initial monitoring, Cornell was not in violation of 29 C.F.R. 1910.1001 (f) (1). In affording an opportunity to Local Union 2300 to observe the monitoring, Cornell did not violate 29 C.F.R. 1910.1001 (f) (4). Cornell acted responsibly in using environmental monitoring exclusively in measuring the exposure of its employees and the effectiveness of its containment of airborne asbestos within the Dean Room. The opportunity afforded Local Union 2300 to observe the

monitoring of asbestos removal in the Uris Library was reasonable under the circumstances."

Removal of asbestos ceiling materials from the Dean Room of Uris Library was accomplished June 1 through 4, 1982, by a firm specializing in hazardous building materials, Canrel Construction Co., Inc. of Rochester, as part of a larger renovation program at the university's undergraduate library.

To ensure that asbestos fibers were not escaping the Dean Room during the removal project, air was monitored at other locations in Uris Library by the Cornell Office of Environmental Health. Cornell employees were not permitted to enter the Dean Room during the removal process, and the work was completed without incident.

People

Fawcett Finance Director

A new Director of Finance and Business Operations for the statutory colleges has been appointed effective Sept. 15.

Nathan Fawcett, assistant chief budget examiner for the education unit of the New York State Division of Budget, succeeds Stewart M. Comber who served 15 years as director and who will continue to serve Cornell as a consultant.

Fawcett has been with the State Division of Budget since 1977. For the last three years he has been responsible for the preparation and administration of the Governor's Executive Budgets for the State University system.

From 1970 to 1977 Fawcett held several positions with the State Department of Labor, including personnel administrator and principal agency labor relations representative.

He is a graduate of Oberlin College.

Cornell Vice Provost James W. Spencer said the university is "very fortunate" to have Fawcett on the staff, and said his "experience in the State Division of Budget, his familiarity with the State University of New York and his knowledge of various state agencies will be extremely helpful to Cornell and the statutory colleges."

Research Leaders Named

Two scientists here have been named associate directors for research in the State College of Agriculture and Life Sciences. Brian F. Chabot and Robert J. Young also will serve as associate directors of the University Agricultural Experiment Station, according to Theodore L. Hullar, director of research.

Chabot, chairman of the section of ecology and systematics in the Division of Biological Sciences for three years, will serve part-time through December and then full-time as of Jan. 1, 1984. He will work closely with faculty and department chairs in many of the plant sciences departments, giving special attention also to

multidisciplinary programs.

Young, recently named professor emeritus, served as chairman of the department of animal science for almost seven years and the department of poultry and avian sciences for more than 11 years. He will serve part-time, giving special attention to research regarding production agriculture and to the college's research facilities and services.

William J. Waters, a former editor of the Ithaca Journal, has been named the recipient of the Cornell/Ben Mintz Media Award for 1983. Given for the sixth time, the award is in honor of Ben Mintz, sports

information director at Cornell for 28 years until his retirement in May 1977. The award is presented each year to "a person who has given Cornell exceptional coverage, and who has contributed a great deal to college athletics in general." Waters, a 1927 Cornell graduate, served on the Ithaca Journal staff for 44 years until his retirement in

1969. He began working at the Journal in January, 1926, and then became a full-time reporter at the newspaper right after graduation. He was, successively, sports editor, news editor, managing editor and editor. Waters was named editor of the Journal in 1954 and held that position until his retirement.

Barton Blotter

Four students were referred to the Judicial Administrator on charges involving separate incidents, including theft of a fire extinguisher, street sign, text book from campus store and possession of a highway light flasher, according to the morning reports of the Department of Public Safety.

During the period between Aug. 29 and Sept. 5, 31 thefts involving losses totaling \$4,495 in cash and valuables were reported on campus. These included two bicycles valued at more than \$200 each, three fire extinguishers totaling \$82, and 18

books costing a total of \$217, taken in four separate incidents at the Campus Store.

Five wallets and shoulder bags with cash and contents totaling some \$700 were reported stolen, two from the Grumman Squash Courts. A \$550 turntable was reported taken from room 109 McGraw Place and a \$165 laser was reported missing from a room in the Space Sciences Building.

Two persons were charged with driving while intoxicated.

Jobs

The following job openings are new this week. For information on vacant positions listed in previous issues of the Chronicle, contact Personnel Staffing Services, 130 Day Hall. Cornell is an affirmative action employer.

Administrative/Professional

Director of Regional Offices/Coordinator of College Public Affairs (Public Affairs Regional Offices)

Director of Student Affairs and Financial Aid (Graduate School of Management)

Administrative Supervisor (Committee on Special Education Programs)

Extension Support Aide (Integrated Pest Management)

Project Coordinator II (CALs—Administrative Operations)

Clerical

Administrative Aide, GR20 (Academic Personnel Office)

Accounts Assistant, GR20 (Unions and Activities)

Office Assistant, GR19 (Visual

Services/University Relations)

Secretary, GR18 (Alumni Affairs)

Secretary, GR18 (Alumni Affairs)

Secretary, GR18 (Electrical Engineering)

Secretary, GR18 (Design and Environmental

Analysis)

Stockkeeper, GR18 (Office Equipment Center)

Secretary/Receptionist, GR17 (Human

Ecology Admissions)

Secretary, GR17 (Residence Life)

Secretary, GR17 (Cooperative Extension Administration)

Secretary, GR17 (Engineering Admissions & Undergraduate Affairs)

Office Assistant, GR16 (University Health Services)

Office Assistant, GR16 (Engineering Admissions & Undergraduate Affairs)

General Service

Bus Driver, SO20 (Campus Transit, Inc.—Endowed)

Material Handler, SO19 (Maintenance and Service Operations—Endowed)

Material Handler, SO18 (Unions & Activities—Endowed)

Custodian, SO16 (Buildings and Grounds Care—Endowed) (3 positions)

Sales Assistant, GR15 (Campus Store)

Cashier, GR15 (Statler Inn)

Technical

Technician, GR24 (Avian & Aquatic Animal Medicine)

Technician, GR22 (Entomology—Geneva, NY)

Computer Operator, GR20 (Computer Services)

Pharmacy Technician, GR18 (Clinical Sciences)

Part-time

Student Development Specialist II (Learning Skills Center/Reading Study Skills)

Secretary, GR18 (Vice Provost)

Academic

Extension Associate—Residential Mechanical & Electrical Systems (Design and Environmental Analysis)

Cornell Chronicle

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Ozone May Be Cutting Nation's Wheat Production

Boyce Thompson Research Tests Air Pollution Effects on Crops

Air pollution in the form of ozone may be reducing the American wheat harvest by as much as 10 to 25 percent, according to preliminary evaluations of tests conducted for the National Crop Loss Assessment Network (NCLAN) by the Boyce Thompson Institute for Plant Research at Cornell University.

The 1983 harvest of winter wheat grown in Ithaca for the northeastern section of NCLAN, a nationwide series of experiments funded by the U.S. Environmental Protection Agency (EPA) to test the effects of air pollution on a variety of crops, confirms the 1982 findings of Boyce Thompson researchers: Ozone (O₃) in the air may be causing a significant reduction in yield of one of this country's most important agricultural crops.

Parallel tests conducted this year by BTI researchers for the Electric Power Research Institute (EPRI) are evaluating the effects on crops of another component in the mix of air pollution, sulfur dioxide (SO₂).

Since 1980 the National Crop Loss Assessment Network has been working toward determining the economic consequences of air pollution on agricultural crops. Nationally coordinated field studies are conducted in five regions: in Raleigh, N.C. and Beltsville, Md., (the southeast region) by North Carolina State University; in Riverside and Shafter, Calif., (the southwest region) by the University of California-Riverside; in Argonne, Ill., (the central states region) by the Argonne National Laboratory; at Corvallis, Ore., (the northwest region) by the Environmental Protection Agency; and in Ithaca (the northeast region) by the Boyce Thompson Institute.

Test crops have included soybeans, corn, wheat, cotton, peanuts, lettuce and tomatoes. All regional tests utilize the same experimental setup, an array of open-top field chambers and test plots without chambers. During the growing season crops are exposed to a range of air quality levels. Some test plants are grown in ambient air, without the plastic-walled chambers. Others are grown as controls, in charcoal-filtered air chambers, to represent "clean" air. Other treatment levels expose chamber-grown plants to non-filtered (NF) air and to non-filtered air in which ozone is maintained at 1.5 or 2 times the ambient concentration for seven hours a day.

Ozone, the triatomic form of oxygen, is a pollutant produced in the lower atmosphere



Plant Pathologist Robert Kohut, left, and Plant Physiologist Robert Amundson examine wheat grown in Ithaca for the National Crop Loss Assessment Network.



Working inside a growth chamber in the Boyce Thompson fields, Anna Schoettle harvests the 1983 winter wheat crop.

by the photochemical reaction of other gases, particularly those in automobile exhaust. Ozone alone or in combination with sulfur dioxide and nitrogen dioxide is believed to account for up to 90 percent of the crop loss in United States caused by air pollution.

Although the NCLAN experiments sponsored by EPA focus only on the effects of ozone, studies of the effects of sulfur

dioxide alone and in combination with ozone were also carried out by the Boyce Thompson team under the sponsorship of the Electric Power Research Institute. In 1983, the air pollution studies in Ithaca were funded in the amount of \$165,000 from the Environmental Protection Agency, \$130,000 from the Electric Power Research Institute and more than \$30,000 from Boyce Thompson Institute.

The most noticeable effects of ozone pollution on winter wheat which is planted in October and harvested in July or August, are premature aging of the plants and reduced size of the grains, the Ithaca

experimenters found.

"Ozone has a cumulative effect on the plants," explains Robert Amundson, a Boyce Thompson plant physiologist and principal investigator in the EPRI studies. "We are finding an acceleration of the aging process. The plants 'mature' faster, the leaves are functional for shorter periods of time, and the rates of photosynthesis are reduced. As a consequence yields are reduced. It is a case of premature senescence — the plants are aging more rapidly than normal."

In addition to premature senescence of

Continued on Page 8

Brochure on Sexual Harassment Distributed to All Employees

A brochure on sexual harassment is now being distributed to all Cornell employees as part of the university's continuing effort to combat the problem.

The six-page brochure, produced by Cornell's Office of Equal Opportunity, is being distributed to all staff and faculty, according to Donald N. Johnson, director of OEO. All employees should have received the brochure by Sept. 15, he said. Copies are available at the OEO, 234 Day Hall.

The brochure includes a message from Cornell President Frank Rhodes, a definition of sexual harassment and a list of procedures for dealing with the problem.

In his letter Rhodes notes that sexual harassment of employees by supervisors is illegal "and will not be tolerated." Sexual harassment of students by faculty members "threatens the very integrity of the university," he wrote. "The university must be an environment of work and study that is free from all forms of sexual intimidation and exploitation," Rhodes said.

The brochure describes how direct action

may stop sexual harassment, then details complaint and grievance procedures. "Recent actions by the federal government have established that sexual harassment is sex discrimination and is therefore illegal," the brochure notes.

The brochure is the latest step by the university to deal with an issue that is a major concern throughout the nation.

In January 1982, Provost W. Keith Kennedy announced that OEO would be involved in all cases of sexual harassment investigation. That office has the expertise and personnel to serve as a resource for any Cornell office that receives a formal complaint he said at the time.

In June 1980, Rhodes issued a strongly worded memorandum to the university community that expressed clear disapproval of sexual harassment. Three months later he re-issued the memo and gave OEO monitoring and reporting responsibility on the issue.

OEO and other university groups have made periodic presentations on campus on sexual harassment.



Paul King, a technician in the NCLAN studies, monitors instruments used to analyze air pollutants.

Calendar

September 1983						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
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25	26	27	28	29	30	

All items for publication in the Calendar section, except for Seminar notices, must be submitted (typewritten, double-spaced) by mail or in person to Fran Apgar, Central Reservations, 532 Willard Straight Hall at least 10 days prior to publication. Seminar notices should be sent to Barbara Jordan-Smith, News Bureau, 110 Day Hall, by noon Friday prior to publication. Items should include the name and telephone number of a person who can be called if there are questions, and also the subheading of the Calendar in which it should appear (lectures, colloquia, etc.). **ALL DEADLINES WILL BE STRICTLY ENFORCED.**

*—Admission charged.

Announcements

Thursday

Sept. 8, 8 p.m. Goldwin Smith Hollis E. Cornell Auditorium. CUSLAR Lecture: Ernesto Jofre of the Chilean Trade Unionists in Exile and the New York Labor Committee on Democracy and Human Rights in El Salvador will speak on the current crisis in Chile and the struggle in Central America.

Saturday

Sept. 10 March by Chilean Solidarity groups and supporters in N.Y.C. to celebrate the resistance of the Chilean people to the Pinochet regime and to commemorate the tenth anniversary of the coup which installed the military dictatorship on September 11, 1973. Call CUSLAR, 256-7293 for carpool information; Ithacans are encouraged to participate in this important demonstration.

The Cornell Companion Animals Program

The Cornell Companion Animals Program, a project which brings pet visitors to local nursing homes, will be holding an organizational meeting for Fall 1983, Thursday, September 8 at 7 p.m. in the Hagen Room of the New York State College of Veterinary Medicine. For more information, please contact Stephanie Schaaf at 245-5454, ext. 2565.

Makhela (Hebrew Choir)

The choir will have its first meeting on Sunday, Sept. 11 at 9 p.m. in the Anabel Taylor Founders Room. Please call 256-0379 or 256-4227 for more information.

Alternatives Library

The Anne Carry Durland Memorial Alternatives Library is located on the first floor of Anabel Taylor Hall. This informal and friendly library contains a wealth of books, tapes, and periodicals on a wide range of topics such as ecology, feminism, spirituality, Native Americans, holistic health, agriculture, life-styles, communities, politics, etc. Anyone may check out materials, browse or listen to tapes. Hours are 9 a.m.-5 p.m. Monday through Friday and 8-10 p.m. Sunday through Thursday evenings. For more information call 256-6486.

Tours of Uris Undergraduate Library

Tours will occur on weekdays through Sept. 9. Interested persons should meet at the Uris circulation desk at the following times and days: Sept. 8 10:30 a.m.; Sept. 9 1:25 p.m. Tours of Uris will include a brief tour of Olin Library for interested persons. Handicapped students needing special tours should call 256-2339.

Relationship Workshop

New 8-week series on creating satisfying relationships, for individuals and couples. Begins Sept. 13, 7 p.m., 401 S. Albany St. Registering now, fee charged. Call Let Davidson, 272-4131. Cosponsored by CRESF.

Transformation Workshop

New 8-week series on personal growth, meditation, and empowerment for living. Begins Sept. 15, 7 p.m., 401 S. Albany St. Registering now, fee charged. Call Let Davidson, 272-4131. Co-sponsored by CRESF.

Personal Growth Workshops

Sign-ups have begun for Building Satisfying Relationships, Women, Food and Self-Esteem, Stress Management, Assertiveness and Building Self Esteem. Each of these workshops meets once a week for 5 weeks and begins the week of September 12. Personal Growth Workshops are open to all faculty, students, staff and their families and are free. Sponsored by the Dean of Students' Office, Division of Campus Life. Call 256-3608 for information.

The Commons Coffeehouse

Anabel Taylor Hall. Hours: Mon.-Fri., 9 a.m.-11 p.m.; Sat., 11 a.m.-5 p.m. and 8 p.m.-midnight; Sun., 11 a.m.-5 p.m. and 7:30-11 p.m. Open when the University is in session.

Bloodmobile

Alpha Epsilon Delta is sponsoring a bloodmobile 10 a.m.-3:45 p.m. Wednesday, Sept. 14, in Barton Hall. Appointments can be made by calling the Tompkins County Red Cross at 273-1900. Walk-ins are welcome.

Eco-Justice Open Meeting

Eco-Justice at Cornell will have an open meeting at 7:30 p.m. Monday, Sept. 12, in the Edwards Room, Anabel Taylor Hall. There will be a slide show, "Peace in Search of Makers" and a small group, general discussion session. The focus of the program this fall will be "Ecology, Justice and Global Peace." For further information call the Eco-Justice office at 256-4225.

Bowling League

Any member of the Cornell community who is interested in participating in a Tuesday night bowling league at Helen Newman Lanes should call the lanes at 256-4200 (days) or Kathy Kopsa at 273-7488 (evenings).

Personal Growth Workshop

"Fish or Cut Bait; Overcoming Writer's Block For Doctoral Students," a personal growth workshop sponsored by the Dean of Students' Office, will begin Thursday, Sept. 15. To sign up call 256-3608 or stop by 103 Barnes Hall.

Dance

Bauhaus Dances of the 1920s

The late Oskar Schlemmer's Bauhaus Dances—avant-garde works of the late 1920s—will be performed at 8:15 p.m. Saturday, Sept. 10, at the Willard Straight Theatre.

The six dances are didactic experiments, according to a review in The New York Times: "In true Bauhaus style, they embody a return to the basics—to primary geometric forms, primary colors, simple gestures and movements."

The works performed by four dancers from one of New York City's current avant-garde centers, The Kitchen, have attracted wide interest, particularly among dancers and art historians.

General admission will be \$4.50, \$3.50 for students. Tickets will be on sale at the door. For advance sales and information call the Department of Architecture at Cornell: 256-5236.

The department is sponsoring the dance in cooperation with the Council of Creative and Performing Arts and the Department of Theatre Arts at Cornell.

One of the dancers, Debra McCall, has restaged and directed the works with the advice of Andreas Weining, a former student of the famed Bauhaus art and architecture school in Weimar and later in Dessau, Germany.

Music for the performance will be by Craig Gordon. The other dancers are Marsha Blank, Jan Hanvik and Juliet Neidish.

Schlemmer, a scenic designer, was among the original sculptors, painters and architects in the school "largely responsible for revolutionizing the teaching of painting sculpture in the industrial arts and architecture throughout the western world," according to the Encyclopedia Britannica.

According to the Times review "the most striking aspect of these dances is the fact that they are so obviously the work of a visual artist. And this is fascinating in itself. Consistently, a two-dimensional image is made to look three dimensional by relating it organically to the space around it. This is very different from exploring the kinetic possibilities of the human body."

Saturday

Sept. 10, 8:15 p.m. *Willard Straight Theatre. "Oskar Schlemmer's Bauhaus Dances" directed by Debra McCall and advised by Andreas Weining. Performers: Marsha Blank, Juliet Neidish and Han Hanvik. Tickets are \$4.50 and \$3.50 student price. For advance sales contact the Department of Architecture at 256-5236. Sponsored by the Council of the Creative and Performing Arts, Department of Architecture and Department of Theatre Arts.

Tuesday

Sept. 13, 8-11 p.m. Anabel Taylor One World Room. Israeli Folk-Dancing. All welcome.

Exhibits

Three Exhibits Open at Museum

On Wednesday, Sept. 14, three exhibitions will open at the Herbert F. Johnson Museum of Art: "Spirit and Ritual: Ancient Chinese Bronzes from the Morse Collection," "Cornell University Art Department Faculty Exhibition" and "The Non-Residential Architecture of Frank Lloyd Wright."

"Spirit and Ritual: The Morse Collection of

Ancient Chinese Art," consists of 23 vessels and other bronze objects dating from the early Shang period (14-13th centuries B.C.) to the early Warring States period (5th century B.C.) and represents most of the types and forms of ritual ceremonial vessels of China's great Bronze Age. The exhibit is part of an exhibition originally organized for the Metropolitan Museum of Art from the private collection of Mr. and Mrs. Earl Morse of New York City. While the dates assigned the bronze pieces in the exhibition are approximations, due to the undocumented retrieval of the vessels from the sites in which they were found, they raise many questions about their function, the purpose of the decorations and inscriptions and the history surrounding their creation.

"Cornell University Art Department Faculty Exhibition," consists of a selection of works in various media by current members of the art department faculty, visiting professors and local professors emeriti. Included in the exhibition will be paintings, sculpture, photographs and works in the graphic arts highlighting the creations of 21 members of the art department faculty. Among those individuals whose works will be on view are Roberto Bertoia, Eleanore Mikus, Victor Colby and the late Jason Seley. A catalog of all the pieces on display will be available for purchase.

"The Non-Residential Architecture of Frank Lloyd Wright" is the first exhibition to examine specifically the non-residential work of Wright, who is lauded as the most important American architect and one of the most influential figures worldwide in the modern movement. The exhibition will focus on five key buildings: the Larkin Building in Buffalo; Unity Temple in Oak Park, Ill.; the Imperial Hotel in Tokyo; the Johnson Wax Company Administration Building and Research Tower in Racine, Wisc.; and the Marin County Civic Center in California.

In less detail, the exhibition will also examine some 20 other non-residential projects and buildings by Wright. Taken together, the 25 designs will form a unified whole, as the supporting written and graphic material will trace how sociological, technological and architectural themes link them. On display will be 14 large panels containing photos, drawings and text on Wright's work. In addition, desks and chairs from the Johnson Wax Administration Building and Larkin Building and fragments of buildings will be integrated into the exhibition, along with matted color prints of Wright's drawings and plates from his 1909 Wasmuth Portfolio.

The Wright exhibition is funded by the New York State Council for the Arts, the S.C. Johnson Company and the Johnson Museum. Guest curator of the exhibit is Jonathan Lipman, visiting scholar at Cornell in the field of architectural research.

The Herbert F. Johnson Museum of Art is open to the public 10 a.m.-5 p.m. Tuesday through Sunday.

Olin Library

Witchcraft in Europe, 1450-1750. Books, Manuscripts and iconographic materials from the Witchcraft Collection, assembled by Andrew D. White and George Lincoln Burr. Hours 10:30 a.m.-5 p.m. Monday-Friday, through September 30.

Herbert F. Johnson Museum

"Cornell University Art Department Faculty Exhibition" will open Wednesday, Sept. 14. Exhibition will consist of a selection of works in various media by current members of the art department faculty, fall semester visiting professors and local professors emeriti. "Spirit and Ritual: Ancient Chinese Bronzes from the Morse Collection" and "The Non-Residential Architecture of Frank Lloyd Wright" both open on Sept. 14. The Johnson Museum is open to the public Tuesday through Sunday, 10 a.m.-5 p.m. with free admission.

Films

Unless otherwise noted films are under sponsorship of Cornell Cinema.

Thursday

Sept. 8, 12:20-1:25 p.m. Warren Hall 32. Rural Sociology 104: Proseminar: Issues and Policies in Rural Sociology. Films of rural communities/cultures in diverse ecological settings. Films: "The Children Know" (Bolivia) and "Potato Planters" (Bolivia). Instructor: John Duewel.

Sept. 8, 8 p.m. *Uris Hall Auditorium, "Who's Afraid of Virginia Woolf?" (1966), directed by Mike Nichols, with Elizabeth Taylor, Richard Burton.

Friday

Sept. 9, 8 p.m. *Statler Auditorium. "Diva" (1982), directed by Jean-Jacques Beineix, with Wilhelmina Wiggins, Fernandez Frederic Andrei.

Sept. 9, 10 p.m. *Uris Hall Auditorium. "Come Back to the Five and Dime, Jimmy Dean, Jimmy Dean" (1982), directed by Robert Altman, with Sandy Dennis, Cher, Karen Black.

Sept. 9, 11 p.m. *Statler Auditorium. "The Wizard of Oz" (1939), directed by Victor Fleming, with Judy Garland, Frank Morgan.

Saturday

Sept. 10, 7 p.m. Statler Auditorium. "The Wizard of Oz."

Sept. 10, 8 p.m. *Uris Hall Auditorium, "Come Back to the Five and Dime, Jimmy Dean, Jimmy Dean."

Sept. 10, 9:30 p.m. *Statler Auditorium. "Diva."

Sunday

Sept. 11, 8 p.m. *Uris Hall Auditorium. "Shanghai Express" (1932), directed by Josef Von Sternberg, with Marlene Dietrich, Clive Brook. Shown with "Pacific 231."

Monday

Sept. 12, 7 p.m. *Uris Hall Auditorium. "His Girl Friday" (1940), directed by Howard Hawks, with Cary Grant, Rosalind Russell.

Sept. 12, 9 p.m. *Uris Hall Auditorium. "The Great Ecstasy of the Sculptor Steiner" (1975), directed by Werner Herzog, with documentary cast. Also shown: "La Souffriere." Open to Film Club Members only.

Tuesday

Sept. 13, 4:30 p.m. Rockefeller D (230). Southeast Asia and are free and open to the public.

"Shadow Master" a perceptive journey into traditional and modern Balinese life focusing on two brothers, one apprenticed to a traditional "shadow master", a combination of priest/comedian/puppeteer, the other attracted to western values, motorcycles and gambling.

Sept. 13, 8 p.m. *Uris Hall Auditorium. "Stolen Kisses" (1969), directed by Francois Truffaut, with Jean-Pierre Leaud, Delphine Seyrig. Shown with: "Antoine and Colette."

Wednesday

Sept. 14, 8 p.m. *Uris Hall Auditorium. "Dr. Mabuse, the Gambler" Pt. 2, directed by Fritz Lang, with Rudolph KleinRogge.

Thursday

Sept. 15, 8 p.m. Uris Hall Auditorium. CUSLAR Free Film Series: "The Battle of Chile," Parts I & II (documentary film) Introduction by Pat Garrett, Dept. of Rural Sociology. Sponsored by Committee on U.S. Latin American Relations.

Sept. 15, 12:20 p.m. Warren Hall 32. Rural Sociology 104: Proseminar: Issues and Policies in Rural Sociology. Films of rural communities/cultures in diverse ecological settings. "Afghan Village" and Afghan Wheat Cycle" (Afghanistan). John Duewel, instructor.

Sept. 16, 1:20-2:10 p.m. Goldwin Smith Kaufmann Auditorium. Asian Studies/Theatre Arts 307: Asian Dance and Dance Drama. Films on Indonesian music and dance shown in conjunction with this course. Visitors welcome. "Beksan Menak." A dance styled after the three-dimensional wooden rod puppets "wayang golek," which portrays an episode from the Amir Hamzah stories: Yogyakarta, Java.

Sept. 16, 9:30 p.m. *Uris Hall Auditorium. "My Dinner with Andrew" (1981), directed by Louis Malle, with Wallace Shawn, Andre Gregory.

Saturday

Sept. 17, 8 & 10:30 p.m. *Uris Hall Auditorium. "My Dinner with Andrew."

Sept. 17, 9 & 11 p.m. *Statler Auditorium. "Annie Hall" (1977), directed by Woody Allen, with Woody Allen, Diane Keaton.

Sunday

Sept. 18, 8 p.m. *Uris Hall Auditorium. "Strangers on a Train" (1951), directed by Alfred Hitchcock, with Farley Granger, Robert Walker.

Lectures

Friday

Sept. 9, 12:15 p.m. Uris Hall 153. Western Societies Program presents Professor Mary Matossian, Department of History, University of Maryland will conduct a Food and Foodways Seminar: "Food and Collective Behavior: Why the Quakers Quaked."

Monday

Sept. 12, 4:30 p.m. Western Societies Program and Society for the Humanities Lecture: "The Religious Crisis in Sixteenth-Century Italy: Catholic Reformation on Counter-Reformation?" Professor Massimo Firpo, A Joint Fellow of the Society for the Humanities and the Western Societies Program, of the University of Turin.

The event will take place in A.D. White House, Guerlac Room. **Wednesday**

Sept. 14, 4:30 p.m. A.D. White House Guerlac Room. "The Religious Crisis in Sixteenth-Century Italy: Evangelism," Professor Massimo Firpo, Joint Fellow of the Society for the Humanities and the Western Societies Program, University of Turin.

Tuesday

Sept. 13, 4:30 p.m. Goldwin Smith Kaufmann Auditorium. "Algorithms: A New Framework of Mathematics," Laszlo Lovasz. Professor of Mathematics, Eotvos Lorand University, Budapest, and A.D. White Professor-at-Large.

Sept. 13, 8 p.m. Anabel Taylor Founders Room. "Israel and the Third World Today," Michael Kerem, Israeli Consul for Communication and Culture. Sponsored by Cornell Israel Forum.

Wednesday

Sept. 14, 7:30 p.m. Anabel Taylor One World Room. America and World Community Course. "Marx's Hope and Ideology of World Community," Susan Buck-Morss, Assistant Professor, Government.

Thursday

Sept. 15, 12:20 p.m. 102 West Ave. Southeast Asia Program Thursday Luncheon Seminar: "Comparative Political Murder: Aspects of Contemporary Politics in Thailand and Indonesia," Professor Benedict R. Anderson, Department of Government, Cornell.

Meetings

Wednesday

Sept. 14, 4:30 p.m. Ives 110. FCR meeting

Music

Faculty and Student Recitals

Faculty and student recitals will be presented at Barnes Hall this weekend, Sept. 10 and 11. Professor Marice Stith will give a recital of contemporary music for trumpet at 8:15 p.m. Saturday, Sept. 10, and Cornell student Alan Murray will present a piano recital at 7 p.m. Sunday, Sept. 11. Both are free and open to the public.

Stith will play works by former Cornell graduate composers: Menhir for trumpet, piano and percussion (written and dedicated to Stith) by John Hilliard, Sonata for solo trumpet by Jack Gallagher; Duo for Trumpet and Piano by Richard Monaco; Serenade for three trumpets by Brian Israel; and Tarr for four trumpets in C and computer by Dexter Morrill.

Taking part in the concert are Brian Israel, piano; Gordon Stout, percussion; Ben Aldridge, Mark Ponzo and Dexter Morrill, trumpets.

A member of the Cornell music faculty since 1966, Stith is director of the Big Red and Symphonic Bands and Cornell Wind Ensemble, and he teaches trumpet students at the university. He has appeared on numerous occasions as soloist with local ensembles. He also served for many years as director of the choir at Ithaca's St. Paul's Methodist Church.

In his Sunday evening recital, pianist Alan Murray will play Sonata No. 8 in A minor by Mozart; Busoni's transcription of Bach's "St. Anne's" Prelude and Fugue; Fantasque (1939) by Andre Marescotti, and the nine Etudes Tableaux, Opus 39 by Rachmaninoff.

A junior in the College of Arts and Sciences, Murray is currently studying physics. He began his piano studies at age 11 with Allen Weiss. Before coming to Cornell, he appeared as soloist with the Hudson Valley Symphony in Bartok's Third Piano Concerto as winner of the orchestra's competition. He is now a student of Robert Preston, White Plains, NY. Murray also performed as soloist with his high school orchestra and in solo recitals. This will be his second solo recital in Barnes Hall.

Fitzwilliam String Quartet Concert

The first concert of the Statler Series will be a performance by the Fitzwilliam String Quartet from London, England, at 8:15 p.m. Thursday, Sept. 29, in Statler Hall.

Tickets for the concert will be on sale beginning Tuesday, Sept. 13, at the Lincoln Hall ticket office, open 9 a.m. to 1 p.m., telephone 256-5144.

The quartet will perform Borodin's Quartet No. 2 in D, Shostakovich's Quartet No. 7 in F Sharp Minor, Op. 108 and Beethoven's Quartet No. 13 in B Flat Major, Op. 130.

The Fitzwilliam String Quartet began its professional life in 1971 as Quartet-in-Residence at the University of York (England). Since that time the group has become known as "the major Western champions" of Soviet composer Dmitri Shostakovich's works.

The group's association with Shostakovich

began when they heard a Russian recording of his Thirteenth Quartet. The quartet wrote to Shostakovich requesting his permission to give the work its Western premiere. Shostakovich agreed and attended the premiere performance; he subsequently spent two days with them in 1972 while on a visit to England, an event which established the relationship that carried on until his death in 1975.

As a result of the relationship with Shostakovich, the Fitzwilliam Quartet has presented the complete cycle of his quartets at Warwick, Cheltenham International Festival, the Wigmore Hall, London and in Montreal. Their recordings of the complete cycle have brought the highest accolades: a Grand Prix du Disque, a "Grammy" nomination and numerous critics' awards in Europe and the United States.

Recently they presented the United States premiere of the complete Shostakovich cycle at Lincoln Center's Alice Tully Hall in a five-concert series, to unanimous critical acclaim. They made their Carnegie Recital Hall debut in October 1979 and returned in 1981 for a performance at the Frick Museum.

Of their Alice Tully Hall performance Newsweek Magazine wrote, "the Fitzwilliam played with rare devotion and enviable assurance, attacking retards and crescendos with such precision that they seemed to be hearing with the same ear."

The Fitzwilliam Quartet members are teachers and artists-in-residence of the University of York and have been affiliate artists at Bucknell University since 1978. Bucknell honored the quartet for its contribution by awarding each of the members honorary doctorates in 1981.

The Fitzwilliam Quartet's concert will mark the end of the subscription sale for the Statler Concert Series. Other groups to perform in the series are the Tokyo String Quartet, the Buswell Parnas Carlin Trio and the Academy of St. Martin in the Fields Octet. Subscription information is available at the Lincoln Hall Ticket Office, 256-5144.

Subscribers to the Statler Series receive a 20 percent discount in price, which is a direct result of contributions through the Fund for Quality Concerts. Fund contributions have also enabled The Faculty Committee on Music to offer the Statler Series at the same price as last year, despite the rising cost of artists' fees. For further information about the Fund for Quality Concerts call 256-4363.

Saturday

Sept. 10, 8:15 p.m. Barnes Hall, Department of Music presents Marice Stith, trumpet, and assisting artists. Works of Cornell composers Hilliard, Morrill, Gallagher, Drozin, Israel.

Sunday

Sept. 11, 7 p.m. Barnes Hall. Pianist Alan Murray will perform works of Mozart, Busoni, Marescotti and Rachmaninoff.

Religious Activities

Sunday

Sept. 11, 9:30-11 a.m. Anabel Taylor G-34, Hillel Office. Hebrew Course for Beginners. 11 a.m.-12:30 p.m., Hebrew Course for Intermediates. Fee charged. Call the Hillel Office at 256-4227 for more information.

Monday

Sept. 12, 7:30 p.m. Anabel Taylor G-34. "Getting Turned Around: Major Themes of the High Holidays."

Religious Services

Thursday

Sept. 8, 9 a.m. & 7 p.m. Statler Auditorium. Rosh Hashana Services (Conservative/Egalitarian).
Sept. 8, 9 a.m. & 7 p.m. Anabel Taylor Edwards Room. Rosh Hashana Services (Orthodox).
Sept. 8, 10 a.m. Anabel Taylor Auditorium. Rosh Hashana Services (Reform).
Sept. 8, 4 p.m. Willard Straight Creek. Tashlich.

Friday

Sept. 9, 9 a.m. Anabel Taylor Edwards Room. Rosh Hashana (Orthodox).
Sept. 9, 9 a.m. Statler Auditorium. Rosh Hashana Services (Conservative/Egalitarian).
Sept. 9, 6 p.m. Anabel Taylor Chapel. Shabbat Services (Reform).
Sept. 9, 6 p.m. Anabel Taylor Founders Room. Shabbat Services (Conservative/Egalitarian).
Sept. 9 Shabbat Services (Orthodox). Call 272-5810 for information about time & location.

Saturday

Sept. 10, 9:15 a.m. Anabel Taylor Edwards Room. Shabbat Services (Orthodox).
Sept. 10, 10 a.m. Anabel Taylor Founders Room. Shabbat Services (Conservative/Egalitarian).

Sunday

Sept. 11, 11 a.m. Sage Chapel. Interreligious Service Speaker: Ingrid Olsen-Tjensvold, Assistant Director, Cornell United Religious Work.

Sunday

Sept. 18, 11 a.m. Sage Chapel Interreligious Service Speaker: Joseph Bugliari, Dean of the Faculty, Professor of Agriculture and Business Law, Cornell.

Seminars

Chemistry: "O-Functional Hydrocarbon Fragments in Transition Metal Complexes," Heinz Berke, University of Konstanz, 4:40 p.m. Friday, Sept. 9, 132 Baker Lab.

Chemistry: Baker Lecture Series: "Nuclear Magnetic Resonance and Structure-Function Correlations in Proteins and Nucleic Acids," Kurt Wuthrich, ETH, Zurich, 11:15 a.m. Tuesday, Sept. 13, 200 Baker Lab. Professor Wuthrich will conduct an informal discussion at 4:40 p.m. Wednesday, Sept. 14, in 132 Baker Lab. He will speak again on the main topic at 11:15 a.m. Thursday, Sept. 15, in 200 Baker Lab.

Ecology and Systematics: "Ecological and Physiological Consequences of Being Fat: Carbohydrate Metabolism in Mammalian Hibernators," Gregory Florant, Swarthmore College, 4:30 p.m. Wednesday, Sept. 14, Morison Seminar Room, Corson Hall.

Food Science: "Applications of Supercritical Fluid Extraction in Food and Natural Product Processing," R.J. Robey, Air Products and Chemicals, Inc., 4:30 p.m. Tuesday, Sept. 13, 204 Stocking Hall.

General Chemistry: "Cooling of Superhot Photofragments and Photoexcited Molecules," G. Flynn, Columbia University, 4:40 p.m. Thursday, Sept. 15, 119 Baker Lab.

Geological Sciences: "Phenomena of Pulsation Tectonics Related to the Breakup of the Eastern North American Continental Margin," R. Sheridan, University of Delaware, 4:30 p.m. Tuesday, Sept. 13, 205 Thurston Hall.

JUGATAE: "Competitive Coexistence in Mycophagous Drosophila," David Grimaldi, 4 p.m. Monday, Sept. 12, 100 Caldwell Hall.

Materials Science and Engineering: "Synchrotron X-ray & Electron Microscopy of Polymer Crystal Annealing," David T. Grubb, 4:30 p.m. Thursday, Sept. 8, 140 Bard Hall.

Materials Science and Engineering: "Inorganic Paper from Glass Ceramics," George Beall, Corning Glass, 4:30 p.m. Thursday, Sept. 15, 140 Bard Hall.

Natural Resources: "The Role of Microcosms in Long-term Environmental Monitoring and Management," James Gillett, 4 p.m. Thursday, Sept. 8, 304 Fernow Hall.

Neurobiology and Behavior: "Sensory Information Processing in Electric Fish," Walter Heiligenberg, University of Calif. at San Diego and Scripps Institution of Oceanography, 12:30 p.m. Thursday, Sept. 8, Morison Seminar Room, first floor atrium, Seeley G. Mudd Hall.

Organic/Organometallic Chemistry: "Electron-Transfer from Highly Strained Polycyclic Molecules," Paul Gassman, University of Minnesota, 8:15 p.m. Monday, Sept. 12, 119 Baker Lab.

Plant Pathology: "Studies on the Biology and Ecology of Rosa multiflora Thumb. and the Potential Use of Pathogens and/or Insects to Function as Biological Control Agents in West Virginia," Sek-Man Wong, 4:30 p.m. Tuesday, Sept. 13, 404 Plant Science Building.

Theoretical and Applied Mechanics: "Constitutive Models for Flowing Granular Materials," Jim Jenkins, 4:30 p.m. Wednesday, Sept. 14, 205 Thurston Hall.

Veterinary Microbiology: "Construction of Live Recombinant Vaccines Using Genetically Engineered Poxviruses," Enzo Paoletti, State of New York Department of Health, 12:15 p.m. Monday, Sept. 12, G-3 Vet. Research Tower.

Sports

Thursday

Sept. 15, 4 p.m. Cascadilla Courts. Women's Tennis Colgate.
Sept. 15, 7:30 p.m. Upper Alumni Field. Women's JV Field Hockey Colgate.
Sept. 15, 7:30 p.m. Schoellkopf. Women's Field Hockey Colgate.

Friday

Sept. 16, 4 p.m. Schoellkopf. Men's JV Soccer Ithaca College.

Saturday

Sept. 17, 1 p.m. Schoellkopf. Women's Soccer Skidmore.

Sunday

Sept. 18, 1 p.m. Schoellkopf. Women's Soccer Southern Illinois.

Graduate Bulletin

A meeting of the Graduate Faculty will be held at 4:00 p.m. tomorrow, September 9, in the General Committee Room of the Graduate School, Sage Graduate Center. The order of business will be the voting of August degrees.

Nomination of Committee forms and Change of Committee forms must be turned in by Friday, September 23. Original course forms and adds are due by September 23, 1983. After that date there will be a \$10 fee. The last day to turn in changes and drops is October 28, 1983. Late University registration is at the Registrar's Office, 222 Day Hall.

Need-based financial aid, including Guaranteed Student Loans, is now administered by the Graduate Fellowship and Financial Aid Office, 116 Sage Graduate Center. All GAPSFAS forms and supporting documentation as well as GSL applications should be submitted to this office. Questions concerning the awarding of hourly College Work Study, National Direct Student Loans, work-study funded Teaching Assistantships, and Guaranteed Student Loans should be directed to the Graduate Fellowship and Financial Aid Office. Questions concerning fellowships, scholarships and traineeships should also be directed to this office.

Questions about assistantships should be directed to the departmental office providing the award. Questions about payments of loans and college work-study should be directed to the Office of Financial Aid, 203 Day Hall.

The Frank Goffio Scholarship Fund offers a stipend of \$1000 for one year. Graduate students aspiring to careers in Third World development who require financial assistance for graduate studies and/or internships abroad are eligible to apply. Deadline for application is October 1, 1983. For application information, contact the Graduate Fellowship and Financial Aid Office, 116 Sage Graduate Center.

Life Sciences Research Foundation (LSRF)- Three-year fellowships will be awarded on a competitive basis to graduates of medical schools and graduate schools in the biological sciences holding M.D. or Ph.D. degrees. All U.S. citizens are eligible to apply with no restrictions on the laboratory of their choice. Foreign applicants will be eligible for study in U.S. laboratories of their choice. A completed application will include a curriculum vitae, three letters of recommendation from faculty members familiar with the candidate's research, and a description of the proposed research project. The candidate is responsible for having this information sent directly to LSRF. The advisor must also acknowledge the acceptance of the candidate, and the willingness of the institution to administer the award. The deadline for applications is October 1, 1983, for award as early as summer 1984.

CIVITAS

WSI COACHES SOUGHT FOR SWIM PROGRAM for boys and girls aged 6-12. Ten week program starts Wednesday evening, Sept. 21, 6:30-8 p.m. at the Ithaca High School pool. CIVITAS car available.

SUICIDE PREVENTION AND CRISIS SERVICE now recruiting volunteers to participate in training program, Sept. 22-Oct. 27, on Tues. and Thurs. evenings (7:30-10:00), and all day Sat., Sept. 24. Come to the CIVITAS office to register.

PROMOTE ENVIRONMENTAL AWARENESS, COOPERATION AND LOCAL SELF-RELIANCE by working in the Community Self-Reliance Center office and library downtown on a scheduled 3 hr./wk. shift between 1-5 p.m., M-F. Help also needed with special projects (hours flexible) in recycling, barter network, appropriate technology directory, and Sprouts, the monthly newsletter.

HIGHLY MOTIVATED HANDICAPPED CORNELL EMPLOYEE SEEKS VOLUNTEER TUTOR to continue his reading lessons. One hour a week before 11 a.m. or after 7:30 p.m. will be sufficient.

TUTOR, ONE-TO-ONE, REFUGEES LEARNING ENGLISH through Refugee Assistance Program. Orientation meeting to be held Tues., Sept. 13, 7:30-9:30 p.m., room 314, Anabel Taylor Hall. Two hours of tutoring each week (usually in refugee's home) are required and you are asked to make a one semester commitment.

Six Postdoc Fellows Here in Mellon Program

Six postdoctoral teaching fellows in the humanities are at Cornell University this fall under fellowships made possible by a 1975 \$1.2 million endowment from the Andrew W. Mellon Foundation.

William D. Davies, linguistics; Joel S. Feigin, music; Christine E. Gray, Asian studies and anthropology, and Stephanie Vaughn, creative writing, are the four new fellows selected last spring by the Humanities Council to begin two-year appointments, according to Anna Geske, director of the program.

They join Susan Amussen and Robert Blobaum, both in history and both in the second year of their appointments.

Geske said that over 200 applications to the program were reviewed by Cornell humanities departments and final selections were made by the Humanities Council in March. The program is designed to encourage the academic growth of promising humanists with recent Ph.D. degrees.

Davies, a 1981 graduate of the University of California at San Diego, is a linguist who specializes in syntactic theory and the study of language universals. An anthropological linguist, he did field research with Choctaw, a Muskogean language of Oklahoma and Mississippi, and wrote his

doctoral dissertation on "Choctaw Clause Structure."

For the last two years Davies has been an instructor of composition of English as a second language at UCSD and National University in San Diego. At Cornell, Davies is in the Department of Modern Languages and Linguistics and will teach a fall seminar on Grammatical Relations and a spring seminar on Structure of a Native American Language.

Feigin, a composer, pianist, and music theorist, graduated in 1982 from the Julliard School of Music where he studied with Roger Sessions. During four summers at the Fountainbleau Music School, Feigin studied composition and theory and organ with Nadia Boulanger.

Feigin has to his credit a considerable number of compositions. Recent compositions are "First Tragedy" for soprano, clarinet and piano, and "Six Poems of William Carlos Williams for Tenor and Chamber Ensemble" written for the Parnassus Chamber Ensemble.

Feigin will teach a fall seminar in the Department of Music in Intermediate Tonal Theory and a spring seminar on An Analytic Study of the Use of the Chorale in J.S. Bach.

Gray has a 1983 Ph.D. in anthropology from the University of Chicago. Her research is on "Religion and the Revolutionary Tradition in Cambodia—an anthropological/historical study on ritual and society in Theravada Buddhism in Cambodia in the 19th and 20th centuries." From 1978 to 1980 Gray did field work in Thailand where she gathered data on the Buddhist Kathin ritual.

Gray's associations at Cornell are with the Asian Studies Program, the Anthropology Department and the Southeast Asia Program. This fall she will collaborate with Thomas Kirsch, professor of anthropology, on a seminar on the Anthropological Study of Buddhism in Asia. She will teach an Asian Studies spring term course on Religion and Revolution in Cambodia in the 19th and 20th centuries.

Vaughn, a 1978 graduate of the Writers' Workshop at the University of Iowa, is currently working on a novel. From 1978 to 1982 she was both a Stegner Fellow and Jones Lecturer in Creative Writing at Stanford University.

A writer of short fiction, she is already widely published, including family narratives in *The New Yorker*, a short story, "Sweet Talk" printed in the "1980 O. Henry

Prize Stories," and recently the short story "Able, Baker, Charlie, Dog" reprinted in "Matters of Life and Death: New American Stories."

Vaughn, who proposes to teach a class in the technique and ambition of short fiction from the writers' point of view, will teach a fall seminar in the English Department in narrative writing and a spring seminar in creative writing.

Amussen, whose research focuses on women's history through the study of gender, will teach History 371: The History of England under the Tudors and Stuarts.

Blobaum, whose research interest is in the field of late 19th and early 20th century Polish labor history, will teach the fall seminar History 454: Eastern Europe Since 1945 and in the spring a course on the history of Poland.

Ending their Mellon Fellowship appointments are Philip Holland and Joseph Viscomi in English, Severine Neff in music and Robert Rynasiewicz in philosophy. Rynasiewicz leaves Cornell for Case Western Reserve University. Holland will be at Bennington College. Neff will be at Columbia University. Viscomi will remain at Cornell in the departments of English, theatre arts and history of art.

Even Honey Bee Hives Have Their 'Undertaker' Specialists



An "undertaker" honey bee uses its mandibles to grasp a dead companion and remove it from the hive. Remarkably, the "undertaker" bee can carry a bee that is its own body weight up to 400 feet from the hive, where it is dropped.

As soon as honey bees become adults, many go right to work cleaning cells, then feeding larvae, storing food, and later becoming guards or foragers. A Cornell researcher has discovered yet another job specialty in the hive: undertaking.

Bees that specialize in necrophoresis — the carrying of the dead — constitute about 1 to 2 percent of the hive's population at any one time, according to Cornell entomologist Kirk Visscher.

"Many more bees were observed removing several corpses than expected if all bees had been performing this work, indicating that there's a clearly specialized group undertaker bees," explains Visscher, a graduate student in the State College of Agriculture and Life Sciences.

Most bees die while foraging, but those that die in the hive are a threat to the health and welfare of thriving bees because they may carry disease or attract predators. Yet, most bees either ignore a corpse or curiously poke or lick it. Although corpse pick-up time varies, an undertaker bee usually arrives within an hour, grasps the corpse in its mandibles, and removes it.

"It's remarkable that they can carry a bee that's their own body weight and fly with it up to 400 feet from the hive where they drop it," says Visscher.

To determine whether necrophoric be-

havior is a special behavior or just part of general housekeeping, Visscher deposited freshly killed bees and balsa wood models that resembled dead bees into a hive. The corpses were removed within an average of seven minutes while it took more than seven hours for the models to be carried out.

"Dead bees elicit an especially rapid response; they are not simply treated in the same way as motionless foreign objects," Visscher says.

He suspected that dead bees might emit a chemical that alerts the undertakers. To test his theory, Visscher coated some dead bees with paraffin to mask any chemical emissions and extracted chemicals from others. Untreated dead bees were removed in about three minutes; but it took three times as long for the extracted and paraffin-coated bees to be removed.

This supported the notion that a chemical signal is given off, probably shortly after death, as has been found in ants. To test his theory further, Visscher incubated freshly killed bees for various lengths of time before introducing them into the hive.

In most cases, Visscher found that the longer the bees were dead, the more quickly they were removed, confirming his hypothesis.

Hall of Fame Honors Malott

Former Cornell President Deane Malott will receive a special award at the sixth annual Cornell Athletic Hall of Fame ceremonies, to be held Sept. 23 at the Sheraton Inn and Conference Center.

Malott, who served as Cornell's sixth president from 1951-63, will receive an award for his numerous contributions to the Big Red athletic department during that time, when seven athletic facilities were constructed: the Moakley House (1953), Teagle Hall (1954), the Cornell University Golf Course (completed in 1954), Grumman Squash Courts (1954), Lynah Rink (1957), the Collyer Boathouse (1958) and Helen Newman Hall (1963).

"Deane Malott is a great friend of Cornell athletics," said Laing Kennedy, who was named director of physical education and athletics in August. "He has always taken a vital interest in all Cornell athletic teams. His involvement in the athletic department during his presidency was just tremendous, as evidenced by all

the athletic facilities that were built during his term."

Prior to serving as Cornell's president, Malott was chancellor of the University of Kansas from 1939 to 1951. Previously, he had served as assistant dean and associate professor at the Harvard Business School, and a vice president of the Hawaiian Pineapple Co. in Honolulu.

ILR to Instruct State Employees

Supervisory skills of more than 20,000 New York state employees will be upgraded over the next two and one-half years under a program administered by the New York State School of Industrial and Labor Relations.

The \$2 million contract between the State Office of Employee Relations and Cornell's ILR School calls for the training of between 21,500 and 23,000 first-line supervisory personnel in all state agencies in basic super-

Security Union Signs Contract

Cornell and the Security Employees Union here have reached agreement on a 2½-year contract, the first between the two parties.

The contract includes a 7 percent increase the first year, retroactive to July 7, and a 6½ percent increase for the second year and one-half.

Cecil L. Murphy, director of employee

relations, said the contract is in line with other agreements between the university and its unions, and that the university "is pleased with the contract, which we consider to be a fair one."

He said the agreement includes a maintenance-of-membership clause which specifies that employees are not required to join the union, but if they do join they must continue membership for the term of the contract, except for one-month "window" periods each June during the agreement. In those months, members may revoke their union membership if they wish, and be relieved of dues payments.

There are 53 persons in the bargaining unit covered by the agreement, which includes employees in the Department of Public Safety and security guards at the Herbert F. Johnson Museum of Art.

visory skills. In addition, about 400 others will be trained as trainers, so the program can continue within each agency once the three-year contract expires.

The program—designed by ILR professors William Frank and William Wasmuth, and Donald Kane, director of management programs — is designed specifically for state employees and uses examples from actual incidents and issues arising in various state agencies.

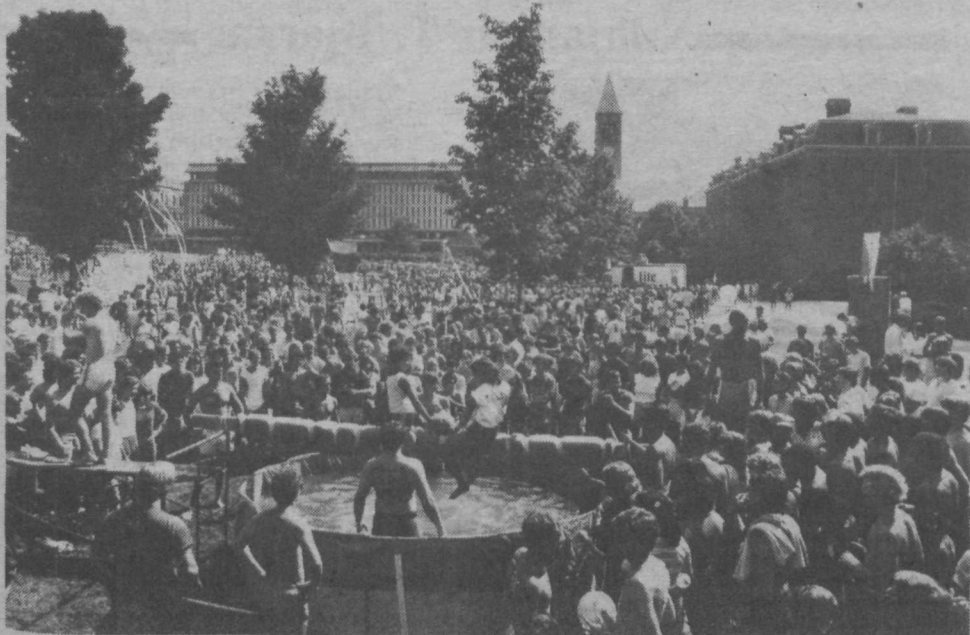
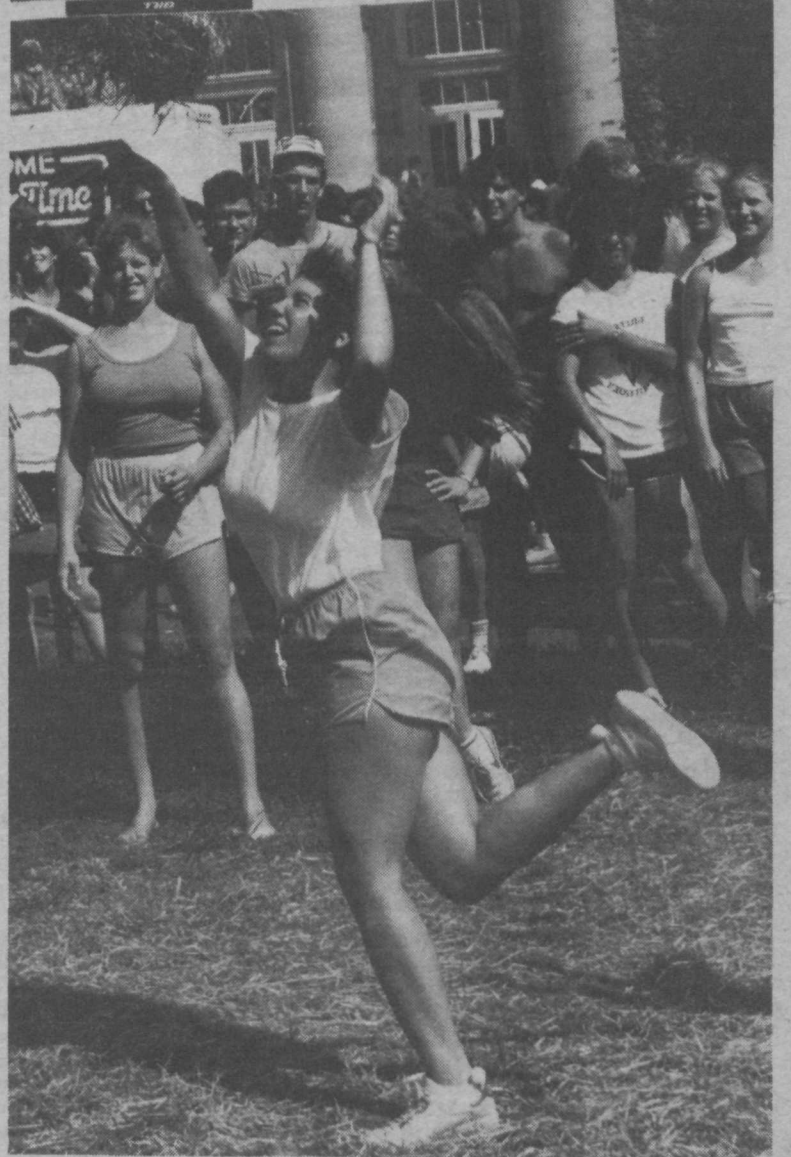


The mud-wrestling pit was Pi Kappa Phi's contribution.

Fun in the Sun 1983



Two groups, responding to the news, had contests to shoot down the 'Russian plane.'



Brief Reports

University Assembly Scheduled Next Week

The University Assembly will meet at 4:45 p.m. next Thursday, Sept. 15, in 300 ILR Conference Center.

Items on the agenda include election of officers and concurrence of the appointment of a University Ombudsman.

Also, at 4:45 p.m. Thursday, Sept. 22, in 215 Ives Hall, Cornell President Frank Rhodes is scheduled to address a joint meeting of the University, Employee and Student Assemblies.

There are several student vacancies on committees of the assemblies. Students who are interested on serving on one or more of the committees should go to the Office of the Assemblies, 165 Day Hall for further information or to pick up applications.

Meetings of the assemblies are open to members of the Cornell community.

Memorial Services For Jason Seley

Memorial services for Jason Seley are scheduled for 4 p.m. Monday, Sept. 12 in Sage Chapel.

An internationally acclaimed sculptor and dean of the College of Architecture, Art and Planning at Cornell, Seley died June 23 of cancer at the age of 64.

He was a 1940 graduate of Cornell and returned to the university in 1968 as a professor of sculpture, serving as chairman of the Department of Art until 1973. He was elected dean in 1980.

Logo Competition Open For Fulbright Program

The Institute of International Education has announced a competition for the development of a logo for the Fulbright Program. All designs entered will be considered. The final decision will be made by the United States Information Agency (USIA), which funds and administers the Fulbright Program. The results will be announced by January 30, 1984.

Should a winner be selected, the USIA will purchase the design, which will become the property of the USIA, for \$1,000. Designs must be submitted to the Fulbright Program adviser, Linda Kao, 100 Sage Graduate Center, Cornell University, Ithaca, New York 14853, by December 10, 1983.

The purpose of the Fulbright Program, established in 1946, is "to increase mutual understanding between the people of the United States and the people of other countries" through the exchange of persons, knowledge, and skills. The program operates in more than 100 countries. In 1980-81, 4371 foreign and American students, teachers, researchers, lecturers, and international visitors were exchanged under this program.

For further background and information on the program as well as specifications and limitations for the competition contact Kao at the address above.

Exchanges Available To Republic of China

The Committee on Scholarly Communication with the People's Republic of China (CSCPRC) announces opportunities under the Graduate, Research, and Distinguished Scholar Exchange Programs with the PRC for advanced graduate students, postdoctoral scholars, and senior scholars, in the natural sciences, engineering, social sciences, and humanities for 1984-85.

These programs make possible long-term

study and research, or short-term lecturing and exploratory visits at Chinese universities and research institutes. Application is open to citizens and permanent residents of the U.S. regardless of national origin, sex, or religious affiliation. Nominations by U.S. institutions of leading Chinese scholars will also be considered under the Distinguished Scholar Exchange Program.

The number of grants depends on available funding. Applications will be available from Linda Kao, 100 Sage Graduate Center, 6-4603. Postmark/ mailing deadline for applications is November 7, 1983.

Frank Press To Give Sack Memorial Talk

Frank Press, geophysicist and president of the National Academy of Sciences, will deliver the 1983 Henri Sack Memorial Lecture at 4:30 p.m. Thursday, Sept. 15, in Cornell's Uris Auditorium.

Titled "Science, Technology, Innovation and the New Industrial Revolution," the lecture is sponsored by the School of Applied and Engineering Physics and is open, free of charge, to the general public.

The biennial lecture series honors Professor Henri S. Sack, one of the founders of the engineering physics program at Cornell. The Walter S. Carpenter Jr. Professor of Engineering and a professor of applied physics, Sack carried on his research in the area of solid state physics at the university for 32 years. He died in 1972.

The Cornell program has served as a model for the introduction of modern physics into engineering curricula throughout the country. Previous Sack lectures have been delivered by Ivar Giaever, the Nobel laureate in physics; Richard Garwin, the experimental physicist at IBM; and physicist and inventor Edwin Land.

A researcher known for his studies of planetary interiors, seismology and the mechanisms of earthquakes, Press has since 1981 been president of the National Academy of Sciences, the private organization of scientists and engineers dedicated to furthering science and its use for the general welfare. From 1977 to 1981 he was director of the Office of Science and Technology Policy under Presidents Carter and Reagan.

Academic Appointment Manual Available

The Academic Appointment Manual, which contains information on the employment of faculty, is available in all departmental offices and at the reference desks of Olin, Mann and ILR libraries.

Folk Guitar Lessons Are Being Offered

Group Folk Guitar Lessons are being offered by the Willard Straight Hall Board beginning Monday, Sept. 12.

Classes will meet on Monday evenings in the International Lounge of Willard Straight Hall. There will be eight one-hour lessons, with registration at the first lesson. Participants must supply their own guitar.

The beginner class will meet at 7 p.m. The class is designed for those who have never played a guitar or who have limited experience in playing.

The intermediate class will meet at 8 p.m. and is for those who have some experience and who want to learn finger-picking.

Cost for the courses is \$20, payable at the first lesson. For further information, call instructor Phil Shapiro at 844-4535 after 10 a.m.

'Ozone: A Cumulative Effect on Plants'

Continued from Page 3

leaves, the BTI researchers note a dramatic reduction in grain size in plants exposed to the air pollutants. "We're finding as many grains per head, but the seeds are smaller than normal," reports Robert Kohut, a BTI plant pathologist and principal investigator in the NCLAN studies in Ithaca. "The plants can't produce enough carbohydrate to fill the heads." The Ithaca studies found that yield reduction occurs even without visible damage to leaves, according to Kohut. Low levels of ozone apparently can reduce photosynthesis without producing cell death, the researchers observed.

Analysis of the 1982 winter wheat harvest revealed a 100-seed weight of 2.47 grams in plants grown in Ithaca's non-filtered air chambers, compared to 3.26 grams for wheat grown in charcoal-filtered air, a loss of 24 percent. The 100-seed weights and loss percentages ranged up to 69 percent in the highest ozone treatment level.

"Our preliminary evaluation of grain size reveals a similar pattern in 1983," Kohut says. "We expect this pattern to be confirmed when we thresh and weigh the wheat."

The variety grown in the Ithaca experiments, a hard, red winter wheat known as "Vona," is seldom planted in the Northeast, but is commonly grown in the wheat belt, including Oklahoma, Colorado, Texas and Kansas.

"Of the eight wheat varieties examined in the NCLAN experiments ours appears to be the most pollution-sensitive," Kohut says. "Our results are not necessarily typical of all wheat cultivars."

"We're not certain why some varieties of wheat are more resistant to air pollution," the plant pathologist says. "It may be that some plant leaves can close their stomata faster or repair damage. There may be

some genetic basis, but the reason isn't really clear."

In an incidental way, farmers may already be screening their crops for response to air quality without knowing it, Kohut notes. When one variety produces poor results one year, the farmer may change to another variety or to a different crop.

"We hope this research will provide insight into the relative sensitivity of wheat varieties," Kohut says. "Farmers now consider resistance to insects, disease and temperature stress in cultivar selection and may also want to consider air quality in the future."

SAGE CHAPEL 'Things That Matter, Things That Don't'

Ingrid Olsen-Tjensvold, assistant director of Cornell United Religious Work, will speak at the 11 a.m. Sunday, Sept. 11, Sage Chapel service. Her sermon topic will be "Three Things That Matter, A Thousand Things That Don't."

A cum laude graduate in social anthropology from Radcliffe College, Olsen-Tjensvold received her Ph.D. in religious studies from Syracuse University. She joined the CURW staff in 1978 and became assistant director in 1981. She is also currently serving as president of the Tompkins County Religious Workers Association.

Music for the service will be provided by the Sage Chapel Choir under the direction of Donald R.M. Paterson, university organist and choirmaster. Stephen May serves as assistant conductor and accompanist.

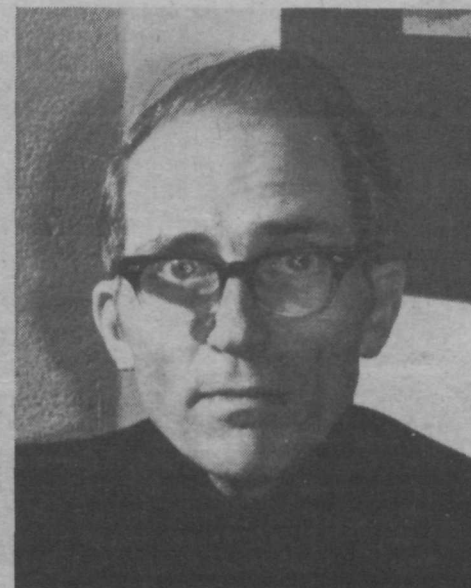
Sage Chapel services are administered by CURW and are held at 11 a.m. on Sundays when the university is in session.

Memorial Services Set For Plane Victims

Memorial services are scheduled for 4:45 p.m. today in the Chapel of Anabel Taylor Hall for Ung Jun Han and his family, who were killed in the Korean airliner downed in Russian territory Wednesday, Aug. 31.

Han, 36, and his wife Ok Myung Han, 32, their son Man Chul, 4, and their daughter Jangmin, 2, were returning home to South Korea. Han had been a visiting professor of fisheries at Cornell the past year.

Vilhjalmur T. Bjarnar



VILHJALMUR BJARNAR

Information gained from the NCLAN field tests is enabling researchers to better understand the relationship between plant growth, yield, and air pollution at various levels and combinations, says Leonard H. Weinstein, director of the Environmental Biology Program at Boyce Thompson Institute and a member of the Research Management Committee for NCLAN.

With the second year's harvest of winter wheat completed, the Ithaca NCLAN team is preparing to conduct studies on the effects of air pollution on timothy and red clover hay in 1984. They plan to examine the effects of air pollutants on productivity, species composition and nutritional quality.

Vilhjalmur T. Bjarnar, curator of the Fiske Icelandic Collection in Olin Library since 1960, died Tuesday, Aug. 30, at Tompkins Community Hospital after a long illness. He was 63.

Born in Reykjavik, Iceland, he studied Icelandic and Old Norse Studies at the University of Iceland and subsequently earned B.A. and M.A. degrees in related subjects including philology and linguistics at the University of Minnesota. He wrote, translated or edited several papers and books in his field and taught Old Icelandic in the Department of Modern Languages at Cornell.

Survivors include his wife, Dora G. Bjarnar of Ithaca; two sons, Erik T. and Jon I. Bjarnar and a daughter, Svava Bjarnar, all at home; a brother, Thorsteinn Bjarnar and sister, Sigrídur Bjarnar, both of Reykjavik.

Memorial donations may be made to the Fiske Icelandic Collection, c/o Olin Library, Cornell University, Ithaca, NY 14853.