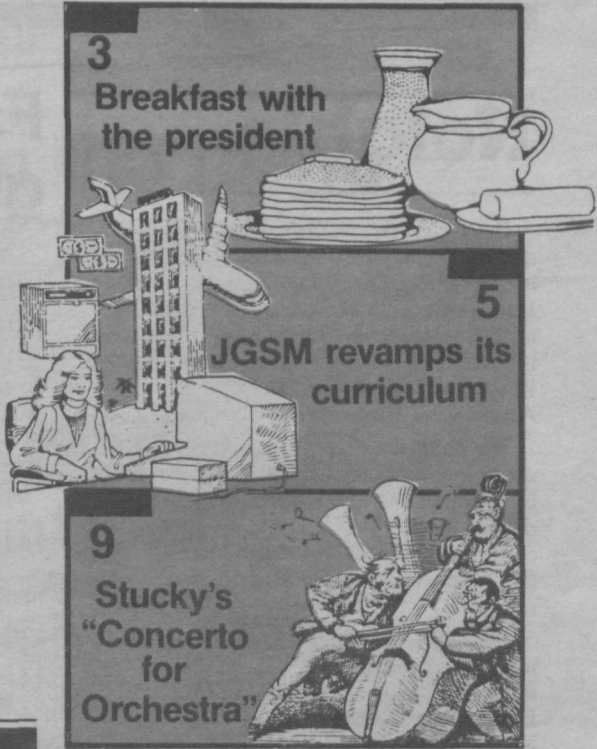


Cornell CHRONICLE

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Loews Hotels finances new Statler lobby

A gift of \$1 million from Loews Hotels will be used to build the lobby of the new Statler Hotel & Conference Center in a style that officials of the School of Hotel Administration say will be "appropriate to a world-class university."

The Loews gift to the hotel, a real-world laboratory for student training, was announced by Shelley S. Semmler, director of development for the Hotel School, which is building the new campus hotel and reconstructing the interior of its administrative and classroom building.

"We are pleased to have the opportunity to associate the Loews name with the number one hotel school in the world," said Jonathan Tisch, president of Loews Hotels. "We consider our support of the new Statler hotel as we would an expenditure for any new hotel development, as an investment in the future of our industry, its leaders and future Loews executives."

John J. Clark Jr., dean of the Hotel School, said that the gift demonstrates Loews' interest in developing high-quality executives through education.

"I'm deeply grateful for this very generous gift from Loews Hotels," Clark said. "It is firm evidence of their concern for quality education for future industry professionals."

Visually impressive lobby

The lobby has been designed for visual impact. "For many university guests, the lobby of our hotel will be their first introduction to Cornell, and we will design it appropriate to a world-class university," said Richard H. Penner, a professor of hotel planning and design coordinator for



Artist's rendition of the lobby of the new Statler Hotel and Conference Center.

the new hotel.

The lobby financed by Loews is designed with cherry paneling, a granite front desk and a granite floor covered in part by a hand-woven wool carpet. The lobby will feature a crystal sculpture on which the names or logos of all major donors to the Hotel School will be inscribed on crystal glass plates, Penner said.

The Hotel School razed its five-story, 50-room inn in 1986, and construction is under way on a nine-story hotel and conference center with 150 guest rooms.

The adjoining Statler Hall, which houses the school's classrooms, laboratories, library and offices, is being remodeled to accommodate new teaching programs. The university approved a budget of \$39 million to build the hotel and remodel the school.

The hotel is scheduled to open next year to serve as a working laboratory for stu-

dents while providing Cornell with its main conference center and accommodations for visitors.

First opening set for next fall

Officials expect to open the first three floors of the hotel and conference center and about 65 to 70 guest rooms on Nov. 1, 1988, Penner said. Additional floors are expected to become available through the following weeks until the hotel is fully operational in January 1989.

Cornell's School of Hotel Administration was founded in 1922 and was the first facility of its kind in the United States.

Loews, which has its headquarters in New York City, operates 14 hotels in New York, New Jersey, Washington, D.C., Colorado, Texas and Canada, and resort properties in Arizona, Monaco, France and the Bahamas.

— Albert E. Kaff

Theory Center gain seen as eclipsing loss

The relocation of the College of Engineering/Theory Center building to the site of Grumman Hall will disrupt faculty research, but could result in a better overall research facility for engineering, John F. Burness, vice president for university relations, said at a news conference last Thursday.

Burness announced at the news conference that the eight-story, 252,000-square-foot building, which had been planned for a site within the treeline at the top of Cascadilla Gorge, would be no less than 20 feet from the trees under the new proposal.

He estimated the additional costs of moving the building, including development of new plans by architects Gwathmey Siegel and Associates of New York City, at up to about \$1 million. The total project cost is now estimated at \$30 million.

Critics concerned about gorge

The new plan came as a result of a series of meetings involving university officers, faculty, Cornell Plantations advisory board members, representatives of the New York State Urban Development Corp. (UDC), local officials and citizens concerned about the location of the building adjacent to the gorge, he said.

Critics of the university's earlier plans had expressed concern that erecting the building near the bank of the gorge might affect the ecology of the gorge and would represent an unacceptable visual intrusion in that undeveloped area.

Burness said that the members of the College of Engineering faculty who first proposed the plan and the Cornell administration foresee that the overall benefits of

Continued on page 12

Heppel's peers, Nobel laureates, to celebrate his 75th birthday

Four Nobel prize winners will be among 15 scientists to speak at a two-day symposium here Oct. 24 and 25, celebrating the 75th birthday of Cornell biochemist Leon A. Heppel, who is still active as one of the nation's leading cancer researchers.

The Nobel laureates, with whom Heppel has worked during various times during his career, are Har Gobind Khorana, Massachusetts Institute of Technology; Arthur Kornberg, Stanford University Medical School; Marshall W. Nirenberg, National Heart, Lung and Blood Institute; and Severo Ochoa, University of Autonoma, Spain.

Khorana and Nirenberg shared the 1968 Nobel Prize for physiology and medicine with Robert W. Holley, who was at the time on the Cornell faculty and is now at the Salk Institute of Biological Studies. Kornberg and Ochoa shared the 1959 prize in physiology and medicine.

Twelve scientific papers will be presented during the symposium, which is scheduled in Uris Auditorium between 1:15 and 5 p.m. on Oct. 24, and between 9 a.m. and 5 p.m. on Oct. 25. The sessions are open to students and the public. For details, see the Calendar on page 6.

Among the more general papers will be discussions by Kornberg on "Mechanisms

of Initiation of Chromosome Replication" and by Khorana on "Rhodopsin and Related Problems." A former colleague of Heppel at Cornell, Gerald R. Fink, now at Whitehead Institute, will discuss "Biochemistry and Genetics — When Worlds Collide."

A banquet is scheduled to begin at 6:30 p.m. on Oct. 24 at the Ramada Inn in downtown Ithaca.

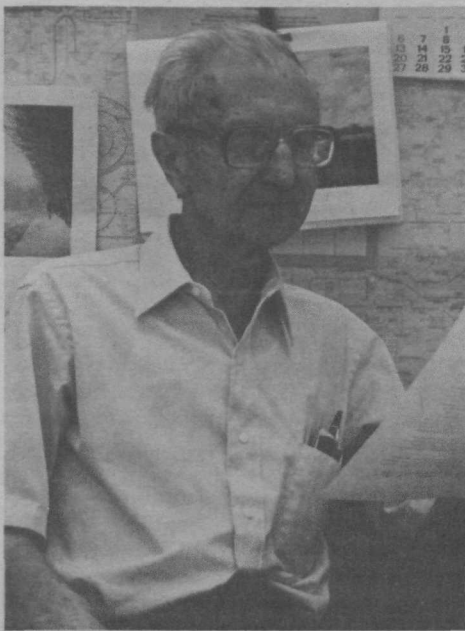
Heppel, who was born on Oct. 20, 1912, in Granger, Utah, joined the Cornell faculty in 1967 after conducting research for 25 years as a medical officer with the U.S. Public Health Service.

He is conducting research here under grants from the American Cancer Society and the National Institutes of Health in an area that may lead to ways of inhibiting the growth of cancer cells.

In addition to his research, Heppel teaches a graduate-level biochemistry laboratory course to about 50 students during the spring term.

He is a member of the National Academy of Sciences and the American Academy of Arts and Sciences.

Homages to Heppel prepared for the symposium cite in detail his numerous scientific contributions along with his love of art, music, literature and movies, inter-



Leon A. Heppel

ests he shares daily with his students and colleagues.

"He is a gentle, loving man who seems to have no enemies," said one associate.

Heppel earned a bachelor's degree in 1933 and a doctorate in 1937 at the University of California at Berkeley and a medical degree in 1941 at the University of Rochester.

— Martin B. Stiles

Ribbon-cutting set for Collegetown bridge

The Collegetown bridge will be reopened with a ribbon-cutting ceremony at 9:30 a.m. on Oct. 26. The bridge has been closed for six months for repairs.

The 89-year-old, stone-arch bridge spans Cascadilla Creek to connect the campus with the Collegetown section of Ithaca. The approaches and the road surface were improved, the narrow sidewalk was replaced with two wider walkways to protect pedestrians, the height of the walls along the bridge was increased, the grade of the roadway was raised a few feet and a new sidewalk was constructed on the east side of Central Avenue, according to David I. Stewart, Cornell's community relations director.

The improvements were made to meet current traffic needs and conform to modern engineering standards and municipal codes, he said.

Ruth P. Ogden of Ithaca, daughter of the designer of the bridge, Henry N. Ogden, will cut the ceremonial ribbon. Her father graduated from Cornell in 1889, taught civil engineering at the university for 45 years and headed its Department of Sanitary Engineering. He died in 1947. Representatives of the university, and local government bodies and civic groups were invited to attend.

Continued from page 12

Notable

Peter Gergely, chairman of the Department of Structural Engineering and director of the School of Civil and Environmental Engineering, has been named to the Committee on Natural Disasters, a committee of the National Academy of Sciences' National Research Council and the National Academy of Engineering.

The committee's responsibilities include sending expert teams into disaster areas hit by such natural events as hurricanes, earthquakes, floods and volcanic eruptions. The committee also addresses long-term funding and policy questions related to hazard reduction.

Gergely is co-principal investigator and member of the executive committee of the newly established National Center for Earthquake Engineering Research, funded at \$10 million annually by the National Science Foundation and the State of New York.

Barton Blotter: Car stereo stolen

A \$200 stereo, a \$300 radar detector and \$3 in change were reported stolen from three cars that were broken into at the Stewart Avenue and Williams Street parking lot between Oct. 12 and 15, according to the morning reports of the Department of Public Works for Oct. 12 - 18.

Other thefts reported during the seven-day period included a \$500 digital telephone taken from Space Sciences, a \$348 Cornell class ring stolen from the Campus Store and \$800 in unauthorized WATS line telephone calls charged to the Department of Unions and Activities.

Four persons were referred to the judicial administrator, two on petit larceny charges and two for forging parking permits. Two other persons were referred to City Court on petit larceny charges and another on a charge of trespass.

Correction

A production error in last week's Chronicle deleted the second half of a statement by Engineering College Dean William Street. Commenting on the proposal to move the Theory Center to the site of Grumman Hall, Street said:

"This proposed solution presents considerable difficulties for the university, in particular for a number of outstanding faculty in the College of Engineering whose work in Grumman Hall would be severely disrupted if the building were torn down and the new Engineering College/Theory Center building constructed."

Cornell CHRONICLE

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It is the policy of Cornell University to support actively equality of educational and employment opportunity. No person shall be denied admission to any educational program or activity or be denied employment on the basis of any legally prohibited discrimination involving, but not limited to, such factors as race, color, creed, religion, national or ethnic origin, sex, age, or handicap. The university is committed to the maintenance of affirmative action programs that will assure the continuation of such equality of opportunity.

Faculty Council considers guidelines for patents, licences

A package of technology-transfer guidelines was presented to the Faculty Council of Representatives last week prior to their review by Cornell's Board of Trustees.

The package, which drew no adverse comment at the council's monthly meeting, will be presented to the trustees on Oct. 24 in a report by Joseph M. Ballantyne, vice president for research and advanced studies.

The term "technology transfer" refers to the process that starts with basic research and leads to practical application. When the research is done under university auspices and a patentable discovery results, the Cornell Research Foundation holds the patent and issues licenses, with royalties secured for both Cornell and the researcher.

A proposed statement for the trustees says applying technology is the "consummation" of a process that starts when Cornell scientists create fundamental knowledge. Because university researchers are "now coupled synergistically with their industrial counterparts," policies should define and secure the interests of the public, the university, the researchers, and those businesses ready to help promote and develop applications of the research, the statement says.

Six recommended objectives

The statement's six recommended objectives for a technology-transfer policy are:

- Serving the public through application of knowledge.

- Creating jobs.
- Enhancing Cornell's stature.
- Attracting faculty and students.
- Attracting external research support.
- Generating income to support continued technology-transfer activities. at Cornell.

Two other statements suggested guidelines for Cornell agreements with entrepreneurs and for Cornell's own investment in businesses tied to Cornell research. These statements seek to welcome business while securing the interests of faculty and university, including the freedom of publication.

The three statements had been approved earlier by the directors of the Cornell Research Foundation.

Support deans' council statements

In other business, the council:

- Agreed to "accept, endorse and support" the Deans' Council's statements passed last January denouncing sexual harassment and racial prejudice and seeking to combat them.
- Heard President Frank H.T. Rhodes's preliminary review of the state of the university.
- Heard University Librarian Alain Seznec's report on the generally good health of Cornell's 15 libraries, whose catalogues of 5 million volumes and 60,000 serials should be computer-accessible in April.

— Sam Segal

Activities set for Trustees, Council

For three days, each body will have working breakfasts, workshops, committee meetings and plenary sessions. Both groups will attend some sessions, including one at 10:30 a.m. Friday, in the Alice Statler Auditorium, when President Frank H.T. Rhodes will give his "state of the university" address.

The Cornell Outdoor Program was recruited to devise some events for the weekend's lighter side. The Outdoor Program, which is part of the Athletics and Physical Education Department, planned more than

Continued on page 11

Obituaries

James O. Mahoney

Mural painter James O. Mahoney, whose work adorned several buildings at the 1939 New York World's Fair, died Oct. 19 at Tompkins Community Hospital after a brief illness. He was 80.

Mahoney's work also can be seen in a number of public and private buildings throughout the country.

Mahoney taught painting here for more than 30 years. He was elected emeritus professor upon his retirement in 1973, and he had served as chairman of the Department of Fine Arts from 1963 to 1968.

Mahoney continued to paint and to live in the Ithaca area following his retirement. His most recent work was completed in 1982 at the Academy of Medicine in Atlanta, where he had painted murals at the Pierremont Hotel in 1973.

Except for 1942-45, when he served as a captain in the U.S. Army Air Corps, Mahoney taught at Cornell from 1939 until his retirement, having previously taught only at Columbia University.

A native of Dallas, he received a bachelor of arts degree from Southern Methodist University in 1928 and a bachelor of fine arts degree from Yale University in 1932, where he studied under Eugene Savage.

In 1937, he won a national competition for the design for mural paintings in the the Hall of the Judiciary of the Federal Building at the 1939 New York World's Fair.

Other public buildings for which he did mural paintings included the Hall of Communications (exterior) at the 1939 New York World's Fair; the Hall of State (South Texas Room) at the Texas Centennial Exposition; Johns Hopkins University (Shriver Hall); All Saints Episcopal Church, Chevy Chase, Md.; the Adolphus Hotel (Presidential Suite), Dallas; and the New Haven Lawn Club. He also did the murals in the bar room of the restored Clinton House in Ithaca.

Mahoney painted murals in private houses in Dallas, San Antonio, New

Orleans, New York City, Washington, White Plains and New Haven.

He was awarded the Prix de Rome in 1932 for three years of study and travel in Europe, with a studio at the American Academy in Rome. He was a member of the Century Club in New York City and the National Society of Mural Painters.

Mahoney was a bachelor. His survivors include a niece and a nephew. Services will be private.

Ward F. Miller

Ward F. Miller, who managed more than 700 acres of Cornell's Ithaca campus farmland from 1957 until his retirement in 1986, died Oct. 18 at his home on Dodge Road after a lingering illness. He was 68.

In addition to overseeing the growing of corn and hay primarily for feeding most of the livestock on campus, he directed the teaching of a farm techniques course taken by hundreds of students during his tenure.

No longer mandatory, the course "is more fun these days because the students want to take it. They're very interested and pump me with questions all the time," Miller said in 1978. Many of the students seek a practical background for teaching and research jobs in underdeveloped countries, he explained.

Miller received a Purple Heart and an Air Medal for his exploits as a captain and fighter squadron leader with the U.S. Army Corps in the European Theater during World War II. He served from 1941 to 1946, and then he became an agricultural agent for Erie and Cattaraugus counties in western New York. From 1948 to 1957, he worked his family's farm in Conewango Valley near Jamestown.

Survivors include his wife, Lucille Miller; two sons, Daren and Jay; two daughters, Laura Tufford and Dawn Smith; and four grandchildren, all of Ithaca; and a brother and three sisters.

A memorial service is scheduled for 2 p.m. on Nov. 7 in Sage Chapel.

Briefs

■ **Gannett awarded drug education grant:** The Health Education Office at Gannett Health Center recently received an \$89,000 grant from the federal Department of Education to expand its drug and alcohol education programs. The two-year grant is part of the Drug-Free Schools and Communities Act of 1986, which awarded money to 95 post-secondary schools across the country. The Health Education Office will use the grant to expand the Alcohol IQ Network on CUINFO, conduct a third campuswide survey of undergraduates — this time to assess the extent of marijuana, cocaine and amphetamine use — and to expand its counseling and outreach programs, according to Nancy Reynolds, project director.

■ **Memorial service for Alex L. Singer today:** A memorial service will be held today at 4 p.m. in the Founders Room of Anabel Taylor Hall for Alex L. Singer, a 1984 graduate of Cornell. Singer, who emigrated to Israel in 1985, died Sept. 15 while leading an Israeli army patrol in south Lebanon. A captain, Singer was one of three soldiers killed in a clash with Palestinian guerrillas, according to the Israeli army. The service is sponsored by B'nai B'rith Hillel Foundation at Cornell.

■ **Personal-growth workshop sign-ups start Oct. 23:** Enrollment in a new series of personal-growth workshops sponsored by the Dean of Students Office starts Oct. 23 in 103 Barnes Hall. The two- to five-week sessions begin the week of Nov. 2 and cover such topics as assertiveness, building self-esteem, building satisfying relationships, stress management, and also the subject of women, food and self-esteem. The series also includes support groups for gay and bisexual women, for the learning disabled and for older students. For more details on the sessions, which are open without charge to all members of the Cornell community, call 255-3608 or stop at 103 Barnes Hall.

■ **Museum receives \$20,000 for exhibit of "Knots and Nets":** The National Endowment for the Arts has given the Herbert F. Johnson Museum of Art a \$20,000 grant to prepare an exhibition featuring about 64 works, tracing the use of knots and nets in functional and ceremonial objects of the 18th, 19th and 20th centuries and in contemporary art objects. It will include examples of African, Oceanic, South and Central American, Russian and Native American netted and knotted objects as well as maritime decorative knots. The show titled "Knots and Nets," is being organized by Nancy Neumann Press, curator of crafts at the Johnson Museum from 1974 to 1980 and now a resident of Baltimore. The show is scheduled for a nationwide tour following its opening exhibition here July 12 through Sept. 4.

■ **New "Museums and Art Galleries in Ithaca" published:** The 1987-88 edition of "Museums and Art Galleries in Ithaca," which features 11 institutions, is now available free from the Tompkins County Chamber of Commerce, at Ithaca City Hall, area hotels and motels, and other locations, including the museums and galleries listed. Funded largely by the Tompkins County Trust Co., the brochure was produced and designed by Jill Hartz, community relations coordinator of Cornell's Herbert F. Johnson Museum of Art, and Andrew Gillis, coordinator of the White Apple Gallery.

■ **Bloodmobile at Martha Van Oct. 29:** Walk-in donors are welcome at the Red Cross Bloodmobile scheduled in Martha Van Rensselaer Hall from 11 a.m. to 4:45 p.m. Oct. 29 under the sponsorship of Kappa Kappa Gamma Sorority. For appointments, call 273-1900.

■ **Jazzdance to perform here Oct. 25:** Jazzdance, the New York City troupe founded and headed by choreographer Danny Buraczeski, will perform here at 8 p.m. on Oct. 25, at the Willard Straight Theatre. The nationally acclaimed group will perform to the sounds of David Brubeck, Glenn Miller, George Gershwin and Motown, incorporating classical ballet, modern and jazz dance choreography. Tickets cost \$9 for general admission and \$7 for students and senior citizens, and are available at the Theatre Cornell Box Office on the first floor of Willard Straight Hall or by calling in reservations at 255-5165.

President's breakfasts: dry wit, concerns on the menu

The man in the gray suit had greeted each student who arrived for the breakfast, popping up to get extra chairs for the latecomers. When the marigolds on the table seemed to interfere with conversation, he was up again to move them aside. Now he was listening to housekeeping problems.

"We've only got four dryers in Highrise 5," a student was complaining. "Sometimes you have to wait hours."

"I never heard that one before," said the man in the gray suit. He put down his orange juice and jotted a note on some folded white paper. "What we need," he said — his face dead-pan, his English-accented voice resonant — "is an enterprising student to start a dryer agency."

Thus, with humor, courtesy and attentiveness to detail, President Frank H. T. Rhodes played host to a student breakfast on a recent Friday, one of about six that he holds each semester.

It is rare — perhaps unique — for the president of a major university to institutionalize such contacts with students. A check of Harvard, Yale and Princeton universities, The California Institute of Technology, the University of Michigan and Swarthmore College found nothing comparable by their presidents.

There to listen

In the Elmhurst Room of Willard Straight Hall, Rhodes had 23 guests packed around the rectangular table at which he took a non-commanding middle seat. The 12 men and 11 women represented five of Cornell's schools and colleges and all four undergraduate classes. There were also two graduate students.

Noting that "Cornell is a big place where it's easy to feel the weight of bureaucracy," Rhodes told the students he had no agenda and had come to listen.

He heard some personal complaints — about the dryers, about closed class sections, about too few computers in some locations. In each case, he suggested remedial action.

Rhodes notes follow breakfasts

He heard the plea of Terri Rubinstein, a sophomore in the College of Agriculture and Life Sciences, who felt frustrated in her effort to promote campuswide AIDS education. While saying he believes that existing efforts are "thoughtful and useful," Rhodes said she could pursue her interest by talking with the director of the Gannett Health Center.

He heard sophomore John Erthein of the College of Arts and Sciences say there were "a few problems with a quota system" that required 28 freshmen be admitted each year to the 144-resident International Living Center on North Campus. "We try to admit people based on how strong their interest is," Erthein said.



President Frank H.T. Rhodes discusses campus life with students Nancy Chin, left, and Tamara Kraus, center, during one of his student breakfasts.

Rhodes, commending the center's "atmosphere and spirit," suggested that Erthein talk with William Paleen, director of residence life. "I'll check too," Rhodes added. "Rhodes notes always follow these breakfasts." And he jotted again.

During the first half-hour, when students introduced themselves, there were plenty of light moments. When College of Human Ecology junior Priscilla Saltzman gave her major as policy analysis, Rhodes didn't pause before responding, "I think we may need you in the office."

When sophomore College of Engineering student Stephen Rossi said, "I change my major every other week; I drive my professors crazy," Rhodes came back with "that's what we're here for."

Students, too, get their shots at one-liners. "Where does that lead?" Rhodes asked Arts and Sciences senior Paul Glen about his major, which is math and computer science. Glen didn't miss a beat and answered, "To finding a job and putting my wife through law school."

But the 70-minute breakfast was more

than casual congeniality. It was also a forum for the president to talk educational philosophy.

To an Agriculture student who said some senior faculty seemed cool to teaching freshman courses, Rhodes said, "We're here because you're here." He added that he will be sitting in on introductory courses to show how important he considers them, and he stressed that such courses stand to benefit from the new President's Fund for Educational Initiatives, which has begun granting \$1 million a year to support promising undergraduate programs on campus.

(Soon after this breakfast, Rhodes attended the first of six introductory lectures he will visit this semester. In a packed Ives 120, he heard Associate Professor John Condry, a developmental psychologist, discuss gender differentiation as part of a child-development course. The 400 students, mostly freshmen and sophomores, applauded briefly when Condry introduced Rhodes but then attended to their note-taking. Rhodes said he hoped that just being seen in such lectures would help con-

vey the importance he ascribes to them.)

When concern was voiced about limiting student access to Olin Library stacks, Rhodes said, "My sympathy is with the people who complained. We have to give access to books; that's why they're here." He said increased study space will be found soon, alleviating some faculty members' concern that researchers might be crowded out of the Olin stacks.

Chris Tozzo, an economics graduate student in Arts and Sciences who doesn't usually eat breakfast, said he had come because he wanted to be a teacher and therefore wanted to sit down with someone — Rhodes — who stood at the pinnacle of the teaching profession. At 8:40, as the students and the president returned their trays to the adjacent cafeteria, Tozzo indicated it was worth the effort.

"So many teachers can lose touch with students," he said. "It's great that he won't allow that. He's also the ultimate policy maker here; it's nice that students have the chance to voice their concerns to him."

— Sam Segal

Wordsworth collection sends works to traveling exhibition

Seven pieces from Cornell's world-renowned Wordsworth collection, including the earliest known portrait of the English poet, will be part of a traveling exhibition that opens on Oct. 28 at the New York Public Library.

Cornell is one of six American universities among about 75 contributors to the exhibition, which will remain in New York City until Jan. 2.

The exhibition, titled "William Wordsworth and the Age of English Romanticism," will include more than 300 pieces — manuscripts, rare books of Wordsworth and his contemporaries, watercolors, paintings and other evocations of the early 19th century movement.

Cornell's contributions, beside the Shuter portrait of Wordsworth at age 28, include a 1793 book, "Descriptive Sketches," inscribed to the poet Coleridge from Wordsworth's sister, Dorothy, and an 1815 volume of Wordsworth's "Poems," which was owned by the poet William Blake and annotated in his handwriting.

According to Donald Eddy, professor of English and the university's rare-book librarian, Cornell is said to have the world's strongest collection of printed materials on Wordsworth, while the greatest collection of manuscripts is housed at Dove Cottage, in Grasmere, one of Wordsworth's homes in the Lake District of England. This exhibition will include Dove Cottage manuscripts and other pieces never before shown outside England.

Cornell's Wordsworth Collection, which now includes some 3,500 volumes and



The earliest known portrait of the English poet William Wordsworth, from Cornell's renowned Wordsworth collection.

thousands of manuscript pages, came to the university in 1925 as a kind of tribute to Leslie N. Broughton, an English professor who died in 1950.

In a 1970 letter from Cornell's rare-books

curator, George Healey, Broughton was recalled as a "one-man cult," so adoring of Wordsworth that "when Broughton was courting the girl he later married, it was decided that the marriage should be devoted

not to a potential family but to Wordsworth . . . and that is what they did."

Moreover, except in his reverence for Wordsworth, Broughton was described as "a completely colorless man" who seemed "unable to open his mouth wide enough to allow his speech to be intelligible at a distance of more than three feet." It was because Wordsworth could miraculously animate so otherwise colorless a man that Cornell got the collection from the executors of Cynthia Morgan St. John.

According to Healey's letter, a sophomore named Victor Emanuel, who sat through Broughton's Romantic Poets course in Room B of Goldwin Smith Hall, disliked all English poets but particularly Wordsworth. Yet he saw the poet's power to transform Broughton. Healey's letter adds:

"If anyone, thought Victor, could choke the voice and bring tears to the eyes of so inert a human being as Leslie Nathan Broughton, then that figure [Wordsworth] must be a stimulant so powerful that heaven only knew what it would do to more sensitive and receptive human beings."

Healey says that is why Emanuel "bought the collection out from under Princeton's nose, and that, Victor has assured me, is the only reason he bought it."

Princeton, Harvard, Yale, Wesleyan, Indiana and Michigan are joining Cornell in supporting the exhibition, which will be shown at Indiana University and at the Chicago Historical Society after it leaves New York City.

— Sam Segal

Scientists synthesize drug that may fight AIDS virus

Cornell scientists have perfected a technique for producing large amounts of a drug that shows preliminary promise in fighting the AIDS virus with chemical trickery.

Castanospermine, a scarce poisonous compound found in seeds of the Australian castanospermum tree, is being synthesized in the laboratory of Bruce Ganem and Hiroshi Hamana, and supplied to the National Institutes of Health AIDS Drug Development Office for testing on the human immunodeficiency virus (HIV), which causes AIDS.

Their chemical synthesis enables pharmaceutical manufacturers to produce castanospermine that is identical to the scarce natural substance, and also enables the design of other versions of the drug that are specifically directed against other retroviruses besides HIV. Retroviruses are viruses which use RNA, rather than DNA as their genetic material.

Cornell University's Office of Patents and Licensing is seeking a patent on the high-yield, drug-synthesizing process.

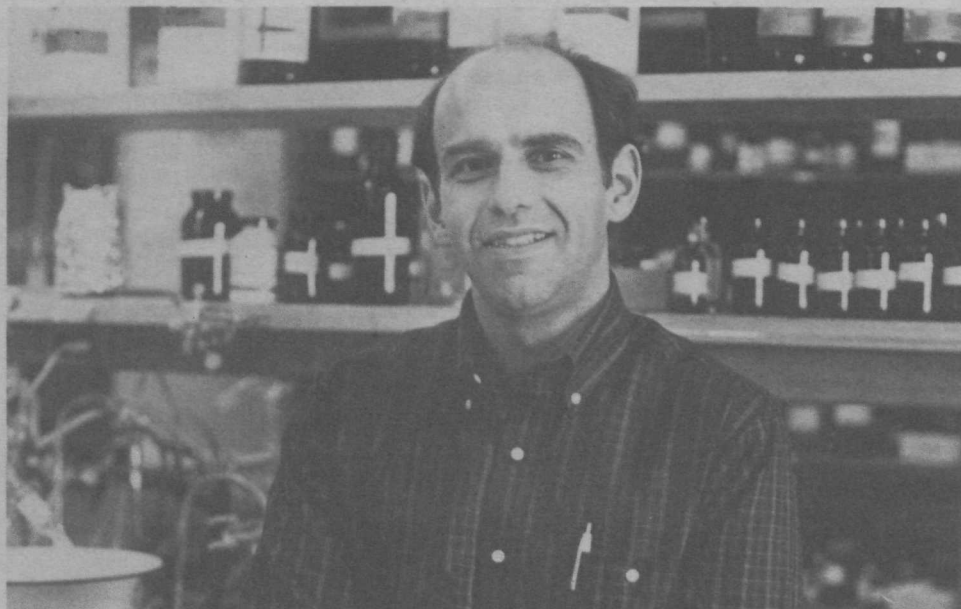
Stepped-up production

Stepped-up production of synthetic castanospermine here follows the discovery by scientists at the Harvard School of Public Health and the University of Washington that castanospermine retards the growth of the AIDS virus in the test tube. That discovery was announced at the Third International Conference on AIDS in Washington, D.C. in June.

Castanospermine has been under study here since 1981 when chemists Jon C. Clardy and Edward Arnold used x-ray crystallographic analysis to determine the two-dimensional molecular structure of the substance, which causes severe gastrointestinal irritation and sometimes death in cattle.

The first laboratory synthesis of castanospermine — along with its correct three-dimensional shape — was reported in 1984 by Ganem, a professor of chemistry, and chemistry graduate student Ronald Bernotas. Noting that the castanospermine molecule's shape was remarkably similar to that of the sugar glucose, Ganem and Bernotas suggested the substance might have potential as an antiviral agent.

"We thought castanospermine might trick the enzymes that metabolize glucose into accepting it as a substrate, and that it would block the action of these enzymes," Ganem recalled. Enzymes, such as those producing the protein coat that surrounds virus parti-



Chemistry Professor Bruce Ganem, whose laboratory is synthesizing castanospermine, a drug that may prove useful in countering the AIDS virus.

cles, must recognize the appropriate substrate — the materials they act upon — by the substrate's characteristic shape, the chemist explained. "When we first synthesized the compound, we knew it blocked the enzymes that break down carbohydrates and release glucose — an important step in a virus' replication of itself."

Subsequent studies at other laboratories showed that castanospermine does indeed block the AIDS virus' ability to reproduce its envelope, and that causes the virus to make faulty copies of itself.

Natural compound is costly

Extracting castanospermine in useful quantities from the nut-like seed of the castanospermum tree is a difficult and costly process, according to Hamana, a postdoctoral research associate. The Cornell synthesis procedure, which begins with glucose, is a high-yield process that is readily adaptable to conventional pharmaceutical manufacturing.

If tests with castanospermine on HIV in tissue culture continue to show promise, trials as a potential chemotherapy agent are expected to advance to animals models and, eventually, to humans. Castanospermine's value as an AIDS treatment is far from being proven, Ganem cautioned, noting that its possible toxic side effects are still unknown.

"A compound of this type (a virus-tricking carbohydrate look-alike) represents a prototype of a drug," he commented. "In our arsenal of new drugs and chemotherapy against serious illnesses, antiviral agents have been the most difficult to develop because a virus is a particularly difficult organism to penetrate."

"The AIDS virus belongs to a larger family of retroviruses," the Cornell chemist said. "Whether or not this compound turns out to be the ultimate treatment for AIDS or even a partial treatment, it may lead to useful chemotherapeutic agents for other viral infections."

Besides synthetic castanospermine that is identical to the naturally occurring substance, the Cornell laboratory is producing structural analogs, which are artificial variations with small changes in the shape of the molecule. These analogs may be more potent against viruses if they can permanently inactivate enzymes in the viral envelope.

"This is one of the virtues of chemical synthesis," Ganem said. "You can start from nature or you can start from scratch and make almost any variation you like. We are now designing and tailor-making molecules that more closely resemble the structure of glucose and other important carbohydrates."

— Roger Segelken

Math models used to study AIDS

What the "numbers behind nature" reveal about AIDS, pest management and natural resources will be discussed when more than 100 scientists convene here Oct. 28 - 30 for the International Symposium on Mathematical Approaches to Environmental and Ecological Problems.

More than one-third of the 26 speakers will focus on mathematical models for the spread of AIDS (Acquired Immune Deficiency Syndrome) and other epidemics.

Mathematical models use equations to describe natural systems, and they are implemented through computer algorithms in order to simulate actual conditions, study the effects of variations and predict the future. The symposium, which is scheduled from 8 a.m. to 5:30 p.m. in 105 Ives Hall, is co-sponsored by the Center for Applied Mathematics and the Center for Environmental Research.

"We really need mathematics to outline the possibilities in the global issues we face today, problems such as the AIDS epidemic, ozone depletion and acid rain," said Carlos Castillo-Chavez, one organizer of the symposium. "Exact prediction is difficult because — unlike problems of physics — environmental and biological problems have so many more uncertainties."

"We are getting closer to being able to predict, with a reasonable degree of confidence, the consequences of the AIDS epidemic," said Castillo-Chavez, a visiting assistant professor of ecology who uses Cornell's supercomputer for epidemiological studies.

Among other topics for symposium speakers will be modelling methodologies, fractals in ecology, age distribution in tree farms, living cells in bioreactors and the use of mathematics for understanding large and small natural systems.

More information on the symposium is available from Dolores Pendell at 255-4335.

Pilot recycling program begun

President Frank H.T. Rhodes has asked a university task force to develop an aggressive campus-wide voluntary program to increase Cornell's current recycling effort, which results in more than 120 tons a year of recycled paper, the university's major waste item.

As a result of his request, the university began a pilot program in Day Hall on Oct. 1. Under the program, containers have been placed on each floor for newspaper, white paper and colored paper, according to the coordinator, Georgina F. Eisenmann, executive staff assistant to the vice president for campus affairs. Office workers separate paper and place it in the bins, where it is collected three times a week.

The new Day Hall pilot program will be evaluated in January. Until then the existing campus efforts will continue as usual, Eisenmann said.

"All of us must be aware of the environmental impact and cost of maintaining landfills in the area," Rhodes said. "It is clear that Cornell can significantly alleviate the Tompkins County's solid-waste disposal problem, as well as reduce its disposal costs, by instituting a more aggressive recycling program."

"I hope that university employees will join in doing their part to reduce the amount of paper entering the waste stream from Cornell," he added.

Although recycling legislation recently enacted by the City of Ithaca does not affect Cornell, the university has been recycling voluntarily since 1971. According to Eisenmann, this effort, begun by the former University Senate, has met

"with varying degrees of effectiveness and enthusiasm" in offices across campus. She also said that mandatory recycling programs would not be successful, because of the university's size, diversity and staff turnover.

In addition to the university's office recycling program, the student organization Ecology House sponsors a dormitory recycling program that results in 40 tons of recycled paper a year, Eisenmann said. Ecology House plans to expand its program later this year.

"We believe that a revitalized education effort and strong support from the university's senior officers can help us substantially improve on the existing effort," she commented. "This new program will not require a great deal of extra effort by individuals or groups. We hope that the recycling process at Cornell can become one of habit."

Lynn Leopold of the City of Ithaca's recycling task force commented, "I'm wonderfully encouraged by what's happening already at Cornell, and I urge members of the campus community to match the current level in the expanded program."

According to some estimates, Cornell generates as much as one-quarter of the county's solid waste, of which 35 percent is mixed paper. About 40 percent of this mixed paper could be suitable for recycling, according to an estimate from Ida Webber, owner of Ithaca Scrap Processors, the company responsible for collecting paper from university buildings and dormitories.

— Dennis Meredith

Gold Lecture set on planets' rings

The intricate rings of the outer planets, the mysteries of quakes on the sun and the clouds around dying stars will be discussed by Caltech astronomer Peter Goldreich in the first Thomas Gold Lecture Series here on Oct. 26 and 29 and Nov. 4.

The series was established last year by the College of Arts and Sciences and the Department of Astronomy to honor Gold, professor emeritus of astronomy, upon his retirement.

Goldreich, a Cornell graduate (B.S. '60, Ph.D. '63) and student of Thomas Gold, will lead two technical colloquia and deliver a popular public lecture as part of the series. Goldreich is the Lee A. DuBridge Professor of Astrophysics and Planetary Physics at Caltech.

In a joint Physics and Astronomy department colloquium on Oct. 26, he will discuss helioseismology, the burgeoning study of quakes on the solar surface. Such tremors yield valuable information about the structure of the sun.

The talk will take place beginning at 4:30 p.m. in Room 700 of Clark Hall. Refreshments will be served at 4:15.

On Oct. 29, Goldreich will conduct an Astronomy Department colloquium, "Circumstellar Masers: OH-IR Stars," beginning at 4:30 p.m. in Room 105 of the Space Sciences Building. Refreshments will be served at 4:15.

This lecture will cover microwave-emitting regions around old stars that are believed to be the precursors of clouds called planetary nebulae that encircle dying stars about the size of the sun.

Goldreich also will deliver a lecture for the public on planetary rings on Nov. 4 at 8 p.m. in Room 120 of Ives Hall.

He will discuss what data from Voyager spacecraft and ground observations have revealed about the structure and formation of the intricate rings of Saturn, Jupiter and Uranus.

— Dennis Meredith

Klug to discuss biochemistry, heredity

The molecular basis of heredity will be discussed when Nobel Prize-winning biochemist Aaron Klug delivers the 10th annual Perspectives for the Future lecture here on Oct. 29.

Klug, director of the Medical Research Council at the Laboratory of Molecular Biology in Cambridge, England, will speak on "The Structure of Chromatin and a Novel Class of Transcription Factors." The lecture is scheduled for 4:40 p.m. in 200 Baker Laboratory.

The Perspectives for the Future lecture series each year invites a Nobel Laureate in

chemistry or medicine to a university in the United States or abroad. J.T. Baker Inc., the Phillipsburg, N.J., manufacturer of laboratory and process chemicals, sponsors the lecture series in an effort to nurture continued academic excellence in science. This is the first time the Nobel Laureate lecture has been given at Cornell.

Klug won the 1982 Nobel Prize in chemistry for his work in determining the structure of biologically significant molecular complexes such as viruses and chromosomes. He is noted for the development of crystallographic electron microscopy as a means of elucidating molecular structure.

Johnson School's changes to range wide, deep

Administrators of the Johnson Graduate School of Management believe that they can tap the university's recognized excellence in the arts and sciences, law and engineering to help prepare their students for complex industrial and financial jobs.

To meet the challenges of the 21st century, the Johnson School is embarking on a far-reaching expansion of its curriculum under which faculty from many Cornell departments are being invited to share with the school's M.B.A. candidates their expertise in engineering, legal, labor and international problems facing U.S. corporations today.

A priority on international studies

International studies, currently centered on the industrial and economic successes of Japan, are high on the Johnson School's agenda. Its students have had the opportunity to learn the language, culture and business customs of Japan and participate in summer internships in Japan.

A similar program has been conducted in Europe in which selected students combine study at a major Belgian university with work experience.

"The Johnson Graduate School of Management is one of the few business schools located at a top-notch research university and, so far as I know, the only one that currently makes extensive use of university faculty beyond the management school in its teaching," said Thomas R. Dyckman, the school's associate dean for academic affairs.

"Hence pieces of our total program will be found in other business schools, but not the whole program. One of the important aspects of this endeavor is that the ideas and planning originated with the faculty. It is their concept of where we must be headed.

"We are more isolated geographically, and it's more difficult for us to interact with other scholars than for professors at universities in major urban centers.

"We want to bring scholars here for one year, not to teach, but as intellectual resources. They would be scholars-in-residence, carrying on their own research while interacting extensively with our faculty and doctoral students.

"Also, we want to offer our own faculty the opportunity to be relieved from teaching and committee work for significant periods in order to pursue their own research. These opportunities will make Cornell more attractive to potential faculty, bring better scholars here and add to our research productivity. We also need to attract the best doctoral candidates to work with our faculty, to do research and to be educated to teach the next generation of M.B.A.'s.

"And I would like to have sufficient resources to say to a faculty member, 'Why don't you go out for a year and work, say, for Exxon or the Public Service Commission, and experience first hand what is going on in an organization.' That's hard to accommodate now."

In the new curriculum, students will learn about the growing problems of product liability from law professors, study the effects on business of toxic chemicals with professors of environmental engineering, examine the effects of industrial deregulation from the man who deregulated the nation's airline industry and — with experts on U.S., Soviet and Japanese systems — consider that have contributed to a serious decline in U.S. productivity.

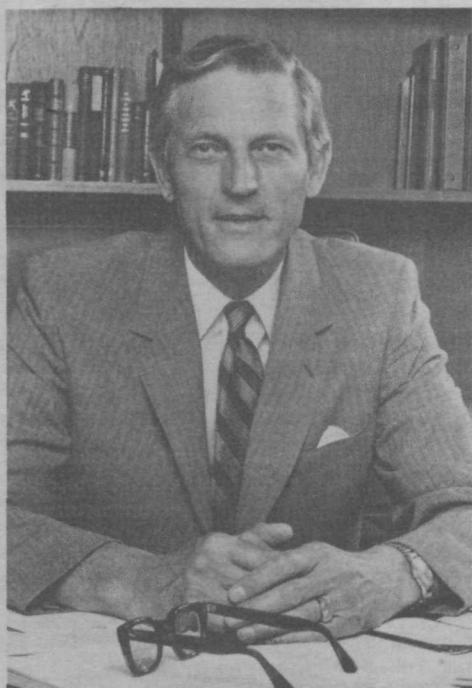
To teach leadership and the need to get results through cooperation, selected students will spend a week to 10 days in programs adapted to management leadership education in the out-of-doors: manning longboats on the Atlantic coast, scaling mountains and crossing rapid streams.

The school also will start a program designed to keep its graduates up-to-date after they leave Cornell. The school's faculty will offer day-long seminars without fees to its graduates in major population centers.

"A leader among its peers"

President Frank H.T. Rhodes said the plans will make the Johnson School "a leader among its peers."

Rhodes said, "The faculty plan combines four basic elements — a long-term perspective, education that transcends disciplinary and geographic boundaries, management that inspires cooperation and further integration of the school into the broader university — which emerge as thoughtful and creative themes that will move the school into the 21st century as a leader among its



Curtis W. Tarr

peers."

Curtis W. Tarr, dean of the Johnson School, summed up the reason for the curriculum changes this way: "Few businesses in the 21st century will support a culture similar to what one finds commonly today. With the erosion of authority, the style of the leader already is changing dramatically."

He said that business leaders of the future "must have the flexibility to manage across boundaries, breaking away from narrow specialization, for leaders always have been generalists, able to focus upon the larger drama surrounding them."

Business' external environment

The Johnson School started its new cross-disciplinary curriculum with a pilot program last year entitled "The External Environment of Business."

"I made a wish list of people around the campus but outside the Johnson School whose specialized expertise would contribute to our business training," said the educator who headed the program, Robert H. Smiley, a professor of economics and policy, who currently is conducting research in Florence, Italy. "All of them accepted my invitation to lecture to my students."

For his external-environment course, Smiley recruited Cornell specialists in American institutions, law, civil and environmental engineering, labor relations, political science, government, Soviet economics, international politics, history and Japanese political parties.

To lecture on deregulation, Smiley tapped Economics Professor Alfred E. Kahn, who deregulated the airline industry while serving as chairman of the Civil Aeronautics Board.

Among other issues, Smiley's students carried out an in-depth study of the Long Island Lighting Utility Co., which petitioned the New York State and federal governments for a license to build a nuclear power plant in densely populated Suffolk County.

The Three Mile Island and Chernobyl disasters caused the state to question the advisability of the Suffolk plant. A decision is pending. Under Smiley's direction, students played the roles of lawyers working for the nuclear plant and the state, and judicial members who would rule on the question.

Neil Orloff, a professor of civil and environmental engineering, added his expertise to the lively class discussions.

"The class studies product liability, examining what happens when you manufacture and sell a product that doesn't work or that is harmful," Smiley said. The discussion was led by Law School Professor James Henderson, an expert in product liability.

Smiley's interdisciplinary course carried a heavy reading load. But 230 students, more than 80 percent of the graduating class, signed up.

Debra A. Walton of Cleveland was one student who organized after-class discussions. She said Smiley's program gave her instruction in fields outside just business courses which she would have missed otherwise and enabled her to understand herself better.

"Some of us who viewed ourselves as liberal discovered traces of conservatism within, and some of us who thought we were conservative uncovered traces of liberalism," she said.

In April, the American Assembly of Col-

legiate Schools of Business awarded Smiley a citation for employing innovative teaching techniques in the course. The course now is a regular offering of the school. A new year-long course in international environment of business is planned, and the pattern of using professors from other departments will be adopted in other courses, Dyckman said.

Plans are afoot to expand Smiley's course from domestic into international environmental problems, and his use of professors from other departments will be adopted in other courses, Dyckman said.

New course in ethics

Dean Tarr will inaugurate a new course in ethics in the spring semester.

"The dean will bring into the classroom business and political leaders who have dealt with tough ethical questions — not theorists, but actual players who have struggled with product problems," Dyckman said.

International studies will play a greater role in the Johnson School curriculum because of the increasing interdependencies of world markets and extensive investments in U.S. industry, real estate and government securities by overseas investors.

Highlight on Japanese studies

Japanese studies have been offered to Cornell M.B.A. candidates for several years, and similar opportunities will be developed for other cultures, Dyckman said.

Students can take an extensive course in the Japanese language to overcome a major problem faced by American business executives who have worked in cities such as Tokyo, Osaka, Yokohama and Kobe since World War II: their inability to speak the language in a country where few people understand spoken English. Also, Americans need to understand and appreciate Japan's culture, Dyckman said.

Studies in Japanese culture and business methods also are offered, to prepare business recruits for a nation where people are so polite that a "yes" often means "no." Japanese studies are followed by internships arranged by the Johnson School with Japanese and American companies in Japan.

The quality of Japanese teaching at Cornell is due to Eleanor H. Jorden, a professor emerita of linguistics, who designed the university's Japanese-language program. In the intensive course, students spend a full year immersing themselves in the Japanese language.

Karen W. Brazell, director of Cornell's China-Japan Program, said, "It is absolutely crucial that we know about Japanese language and culture at a deep level if we are to succeed in business today."

She said a joint program is offered in which students earn master's degrees in Japanese studies and business administration. Brazell, a specialist in the Japanese theater of noh, kabuki and bunraku puppets, said she has one mechanical engineering student in her theater class this year. She also teaches a general course on Japanese culture, which she considers essential for today's business executives, and classical Japanese literature and language.

Off-campus programs

The Johnson School now provides opportunities to earn degrees at two universities in Louvain, Belgium, one for administration and one for economics, and for one semester of studies at the London Business School. Students from those three schools can attend Cornell.



Thomas R. Dyckman

The M.B.A. candidates also will gain from experiences outside the classroom. To teach leadership, the Johnson School plans two small classes next August based on an Outward Bound and Executive Ventures format.

"About 10 students will be selected to attend these education-in-the-outdoors experiences," said Dyckman, who is the Ann Whitney Olin Professor of Accounting and who served three years in the 1950s as a naval intelligence officer.

"These students will learn how to work together and to develop trust as they cross ridges, ford streams, take to longboats and rappel up and down rock mountainsides, perhaps with people they don't like in situations where cooperation is essential," he said. "They will learn that getting things done typically requires working through others."

The Johnson School also hopes to work with university physical education experts in designing campus projects that will allow similar challenges to be offered to students locally for shorter periods of time.

The idea is not new. American and Japanese corporations have been sending middle- and upper-management people into similar programs for several years. What is new is that a management school is adding such a program for its students, Dyckman said.

"There is a lot to be learned about leadership that can't be accomplished in the classroom," he added.

The new program at the Johnson School will cost lots of money, and Dean Tarr and his staff are addressing the budgetary demands. In September, the Johnson School launched a \$46.5 million capital fund campaign to support broadening the curriculum, expanding research, endowing professorial chairs, bringing experts and scholars to the campus and increasing student aid. Only a small portion of the funds will be used for facilities.

— Albert E. Kaff



Robert H. Smiley

CALENDAR

All items for the calendar should be submitted (typewritten, double spaced) by campus mail, U.S. mail or in person to Chronicle Calendar, Cornell News Service, Village Green, 840 Hanshaw Road.

Notices must be received 10 days prior to publication and must include the name and telephone number of a person who can be called if there are questions.

Notices should also include the sub-heading of the calendar in which the item should appear.

DANCE

Folkdancers

The Cornell community and the general public are welcome to join in folkdancing. Admission is free, unless stated otherwise.

A workshop of Balkan Folkdances taught by David Vinski will be held Oct. 24, 10 a.m. to noon and 2 to 4 p.m. and Oct. 25, 11 a.m. to 1 p.m., in Martha Van Rensselaer Hall auditorium. Admission to the workshop is \$18, or \$5 per session. For more information call 257-3156, or attend a free pre-workshop party, Oct. 23 at 8 p.m. in the North Room of Willard Straight Hall.

Israeli Folkdancing

Thursday, Oct. 22 and 29, 8:30 p.m., Edwards Room, Anabel Taylor Hall.

Swing and Jitterbug

Dancing every Wednesday evening from 8:30-10 p.m., Edwards Room, Anabel Taylor Hall. Instructor will be present. Partners are not needed. For more information, call 273-0216.

Cornell Dance Series

"Jazzdance: The Danny Buraczkeski Dance Company," Oct. 25, 8 p.m., Willard Straight Theatre. The distinctive jazz sounds of Dave Brubeck, Glenn Miller, George Gershwin and Motown brought to life through ballet, modern and jazz dance. Tickets are \$9/\$7 for students and senior citizens. Call the Theatre Box Office at 255-5165 for tickets.

EXHIBITS

Ives Hall Exhibition Cases

The Specter of Child Labor can be seen in the Ives Hall classroom wing exhibition cases through the month of December.

Johnson Art Museum

The Herbert F. Johnson Museum of Art, on the corner of University and Central avenues, is open Tuesday through Sunday from 10 a.m. to 5 p.m. Admission is free. Call 255-6464 for further information.

Two Icelandic Artists: An exhibition featuring two leading Icelandic women artists, Nina Tryggvadottir and Louisa Matthiasdottir, continues through Oct. 25.

8 New York Artists: An exhibition organized by the Kenkeleba House, Inc., New York City, continues through Oct. 25, featuring the work of eight mature artists living and working on New York City's Lower East Side. The eight artists are: Al Copley, James Bohary, Herman Cherry, Dorothy Dehner, Reuben Kadish, Elaine de Kooning, Richards Ruben and Edvins Strautmanis.

Artbreaks: Box Lunch Thematic Tours: Every Thursday at noon during the month of October. Admission is free. Meet in the museum lobby. "The Art of Creating: Asian Art," a tour of the museum's collection of

ancient art from Asia, Oct. 22. "The Art of Creating: European Art," explores how artists used quill pens, rose madder, parchment, and linen to create beautiful and lasting works of art, Oct. 29.

The Utility of Splendor: The Architecture of Balthasar Neumann: To commemorate the 300th anniversary of Balthasar Neumann's birth, the exhibition, planned in cooperation with the Department of Architecture, honors a great architect of the 18th-century. The exhibition includes drawings, models prepared by architecture students, and explanatory text, Oct. 27 through Dec. 20.

Lessons in Printmaking: Works by artists from Europe, Asia, and the United States illustrate the full range of printmaking techniques and the variety of effects each produces. The exhibition includes Pablo Picasso's "Le Peintre a la Palette," 1963. The exhibition also explores the printing process from paper selection to proper matting techniques. The exhibition will be on view through December.

Olin Library

Wordsworth and the Age of English Romanticism: First editions of Wordsworth's books and broadsides, manuscripts and letters, books and fine bindings from his library and handsome engravings of the English Lake District. Weekdays 8 a.m. to noon and 1-5 p.m. through Dec. 31.

Willard Straight Art Gallery

Asian Student Multi-Media Art Exhibit: On view from Oct. 26-30. Opening Oct. 26, 5-6:30 p.m.

FILMS

Unless otherwise noted, films are sponsored by Cornell Cinema. An (*) indicates that admission is charged.

Thursday, 10/22

"An Indian Pilgrimage: Kashi," documentary, 5 p.m., 310 Uris Library, sponsored by the South Asia Program.

"Last Year at Marienbad," (1961), directed by Alain Resnais, with Delphine Seyrig and Georgio Albertazzi, 8 p.m., Uris.

"Mountain Music of Peru and The Spirit Possession of Alejandro Mamani," documentary, sponsored by CUSLAR, 8 p.m., Anabel Taylor.

Friday, 10/23

Cornell Alumni Filmmakers Presentation, 2 p.m., Johnson Museum. Cornell alums, now practicing filmmakers in New York, return to show samples of their work. The filmmakers are Doug Block, David Leitner and Jim McConkey. Co-sponsored with the Theatre Arts Department.

"Ferris Bueller's Day Off," (1986), directed by John Hughes, with Matthew Broderick, Mia Sara and Alan Ruck, 11:30 p.m., Uris.*

"Hollywood Shuffle," (1987), directed by Robert Townsend, with Robert Townsend, Anne-Marie Johnson and Helen Martin, 9:30 p.m., Uris.*

"Rosa Luxembourg," (1986), directed by Margarethe Von Trotta, with Barbara Sukowa and Daniel Olbrychski, 8 p.m., Anabel Taylor.*

"Roxanne," (1987), directed by Fred Schepisi, with Steve Martin, Daryl Hannah and Rick Rossovich, 7 p.m., Uris.*

Saturday, 10/24

"Ugetsu," directed by Kenji Mizoguchi, 2 p.m., Johnson Museum. Free admission: Cornell Cinema and Johnson Museum members only.

"Hollywood Shuffle," 7:30 p.m., Uris.*

"Rosa Luxembourg," 8 p.m., Anabel Taylor.*

"Roxanne," 9:30 p.m., Uris.*

"Ferris Bueller's Day Off," midnight, Uris.*

"An Indian Pilgrimage: Kashi," 5 p.m., 310 Uris Library, sponsored by South Asia Program.

Sunday, 10/25

Whitney Biennial Film Exhibition: (1985) "Object Conversation" (1985), Paul Glabicki; "The Cup And The Lip" (1986), Warren Sonbert; and "Signal — Germany On The Air" (1985), Ernie Gehr, 2 p.m., Johnson Museum. Co-sponsored with CCPA.

"Roxanne," 7:15 & 9:30 p.m., Uris.*

Monday, 10/26

"Ferris Bueller's Day Off," 8 p.m., Uris.*

"Permanent Wave," (1986), directed by Christine Choy, and other short films, 4 p.m., Johnson Museum. Choy will be the host to Cornell Cinema's week-long tribute to Third World Newsreel. Co-sponsored with CCPA and Film/Video Arts.

Tuesday, 10/27

"Comic Magazine," (1986), directed by Yojiro Takita, with Yuya Uchida, Kazuyoshi Miura and Beat Takeshi, 8 p.m., Uris.*

"Community Plot," (1984), directed by Orinné Takagi, who will join Christine Choy in discussing Asian American filmmaking as part of Cornell Cinema's tribute to Third World newsreel, 4 p.m., Johnson Museum. Co-sponsored with CCPA and Film/Video Arts.

"Three Worlds of Bali," (1981), 4:30 p.m., Uris Library Media Center.

Wednesday, 10/28

"Musica," (1987), directed by Gustavo Paredes, with Dizzy Gillespie and Paquito D'Rivera, 4 p.m., Johnson Museum. Paredes and Christine Choy will discuss Latino filmmaking outside and within Third World Newsreel. Co-sponsored with CCPA and Film/Video Arts.

"Reds," (1981), directed by Warren Beatty, with Warren Beatty, Diane Keaton and Jack Nicholson, co-sponsored with Marx-Lenin Institute, 8 p.m., Uris.*

Thursday, 10/29

"Speaking In Tongues," (1987), directed by Doug Harris, with David Murray and Milford Graves, 4 p.m., Johnson Museum. Harris and Christine Choy will discuss the history of black-produced films by Newsreel. Co-sponsored with CCPA and Film/Video Arts.

"A Newsreel Retrospective," with guest filmmaker Christine Choy who will introduce and discuss this closing program in the Third World Newsreel series, 8 p.m., Uris Co-sponsored with Theatre Arts Pentangle Program, CCPA and Film/Video Arts.

"Sons of Siva," 5 p.m., documentary, sponsored by South Asia Program, 310 Uris Library.

LECTURES

Astronomy

"Planetary Rings," a public lecture, part of the Thomas Gold Lecture Series, Peter Goldreich, California Institute of Technology, Nov. 4, 8 p.m., Room 120 Ives Hall. See also seminar listing.

Comparative Literature

"Fairy Tales for Dialectians: Walter Benjamin and his Hunchback Dwarfs," Irving Wohlfarth, Comparative Literature, University of Oregon, Oct. 22, 4:30 p.m., Goldwin Smith D. Co-sponsored by the Society for the Humanities and the Departments of German and Romance Studies.

Ecology and Systematics

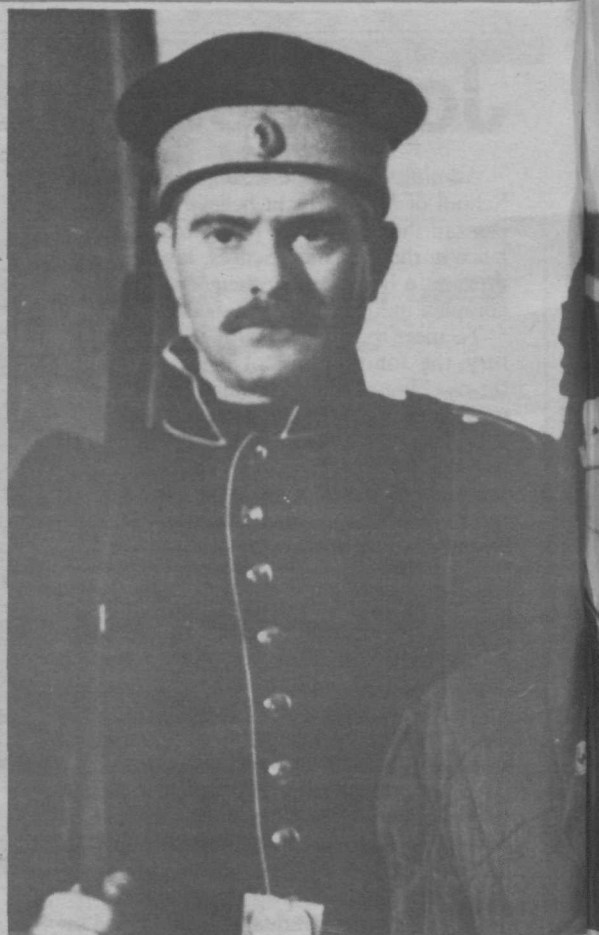
"The Fossil Evidence of Human Evolution at Hadar, Ethiopia, or 'Lucy' and Her Friends," Peggy C. Caldwell, Oct. 26, 2:30 p.m., Human Biology Lab, 206A Stimson Hall.

History

"Chazanim: Voices of the Great Cantors," Fred Somkin, Dept. of History, Oct. 27, 3:30 p.m., Anabel Taylor Hall Founders Room.

Materials Science and Engineering

"Polymer Alloys," Isaac Sanchez, Alcoa, Oct. 29, 4:30 p.m., 140 Bard Hall.



Barbara Sukowa in the title role of Margarethe Von Trotta's *The German Doctor*. Saturday at 8 p.m. Check the film listings for details.

Near Eastern Studies

"Evolving Jewish Perceptions of Christianity: Medieval and Modern," David Berger, Oct. 28, 4:15 p.m., 374 Rockefeller Hall.

South Asia Program

"The Mahabharata: Myth, Epic, and Theology in the Emergence of Hinduism," James Fitzgerald, University of Tennessee, 12:15 p.m., 360 Uris Hall.

Theoretical and Applied Mechanics

"Newton as the Culmination of the Scientific Revolution," Richard Westfall, History and Philosophy of Science, Indiana University, Oct. 28, 4:30 p.m., 205 Thurston Hall.

University Lectures

"The Restoration of York Minster," Sir Bernard M. Feilden, director emeritus, International Centre for the Study and Preservation of Cultural Property (ICCROM), Oct. 27, 4:30 p.m., Hollis Cornell Auditorium, Goldwin Smith.

"Newton as the Culmination of the Scientific Revolution," Richard S. Westfall, Distinguished Professor of the History and Philosophy of Science, Indiana University, Oct. 28, 4:30 p.m., Hollis Cornell Auditorium, Goldwin Smith.

MUSIC

Bound for Glory

Magpie, outstanding harmonies on everything from topical songs to early jazz, Oct. 25. Bound for glory presents three live sets, at 8:30, 9:30 and 10:30 p.m., every Sunday at the Commons Coffeehouse, Anabel Taylor Hall. Admission is free. The show can be heard Sunday 8 to 11 p.m. on WVBR-FM93.

Department of Music

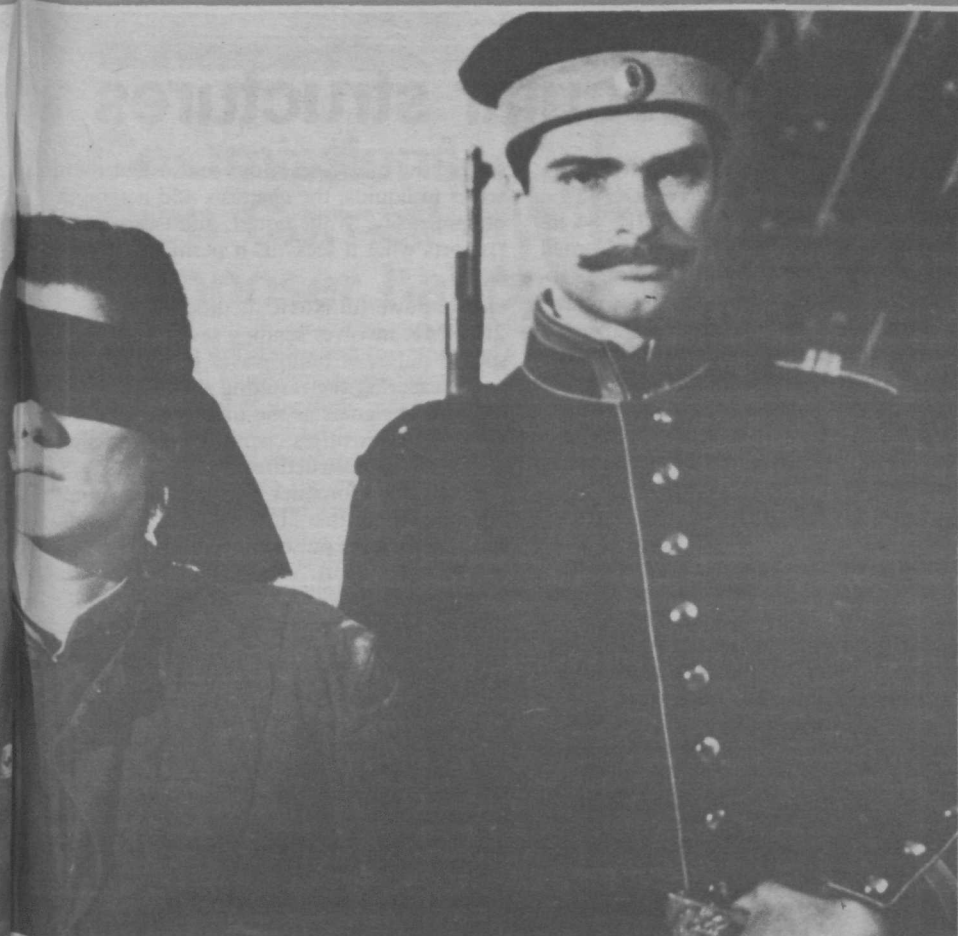
Organ Music by Donald R.M. Paterson, works by Pasquini, Froberger, Sweelinck, Pachelbel, Couperin, Lubeck and J.S. Bach, Oct. 23, 8:15 p.m.

Apollo's Banquet, Baroque ensemble with Berkelhammer, Monosoff, Davidoff, Urrey and Wolf. Works by Telemann and J.S. Bach, Oct. 25, 4 p.m.

Lecture-recital by Joyce Lindorff on "Contemporary Harpsichord Music," Oct. 28, 4 p.m.

University Cooperative Nursery School

The Coleman Brothers will give a concert of original music, Oct. 23, 8-10 p.m., Kaufmann Auditorium. Proceeds will benefit the University Cooperative Nursery School. A donation of \$4 is requested at the door.



film "Rosa Luxemburg," which will be shown by Cornell Cinema on Friday and

RELIGION

Sage Chapel

Kenneth Blanchard '61, author of "The One-Minute Manager," will open the service Oct. 25, 11 a.m.

Catholic

Mass: Every Saturday, 5 p.m., every Sunday, 9:30 and 11 a.m., and 5 p.m., Anabel Taylor Auditorium.

Daily Masses Monday through Friday, 12:20 p.m., Anabel Taylor Chapel.

Christian Science

Testimony Meeting: Every Thursday, 7 p.m., the Anabel Taylor Founders Room.

Episcopal (Anglican)

Every Sunday, 9:30 a.m., Anabel Taylor Chapel.

Friends (Quakers)

Sunday, 9:45 a.m., adult discussion; 11 a.m. meeting for worship, Edwards Room, Anabel Taylor Hall.

Jewish

Morning Minyan: Young Israel House, 106 West Avenue. Call 272-5810.

Reform Services: Friday evenings 5:30 p.m., Anabel Taylor Chapel.

Conservative/Egalitarian Services: Friday 5:30 p.m., Saturday 9:45 a.m., Anabel Taylor Hall Founders Room.

Orthodox Shabbat Services: Friday evenings, Young Israel House, 106 West Avenue. Call 272-5810. Saturday, 9:15 a.m., Anabel Taylor Edwards Room.

Korean Church

Every Sunday, 2:30 p.m. Anabel Taylor Hall.

Muslim

Sunday through Thursday, 1 p.m., 218 Anabel Taylor Hall. Friday 1 p.m. Anabel Taylor Edwards Room.

Protestant

Protestant Cooperative Ministry: Every Sunday, 11:15 a.m., Anabel Taylor Chapel.

Zen Buddhism

Zazen meditation: Tuesdays at 7 p.m., Edwards Room, Anabel Taylor Hall. Every Thursday 5:10 p.m., Anabel Taylor Chapel. For more information or to arrange beginner's instruction, call Ian Dobson at 277-4364.

SEMINARS

Agricultural Engineering

"Engineering Opportunities in Agricultural Biotechnology," Ralph Hardy, president, Boyce Thompson Institute, Oct. 26, 4 p.m., 400 Riley-Robb.

Agronomy

"The Mineral-N/Symbiotic-N Balance In Legumes," Allan Eaglesham, Boyce Thompson Institute, Oct. 27, 4 p.m., 135 Emerson Hall.

Applied Mathematics

"Sine Gordon in the Large," Nick Ercolani, University of Arizona and New York University, Oct. 23, 4 p.m., 322 Sage Hall.

"Mathematical Approaches to Environmental and Ecological Problems," an international symposium, co-sponsored by the Center for Environmental Research, Oct. 28-30, 105 Ives Hall. For details, call Dolores Pendell at 255-4335.

Astronomy and Space Sciences

"The Supernova," David Helfand, Columbia University, Oct. 22, 4:30 p.m., 105 Space Sciences.

"Helioseismology," Thomas Gold Lecture Series, Peter Goldreich, California Institute of Technology, Oct. 26, 4:30 p.m., Clark Hall, Room 700.

"Circumstellar Masers: OH-IL Stars," Thomas Gold Lecture Series, Peter Goldreich, California Institute of Technology, Oct. 29, 4:30 p.m., 105 Space Sciences.

"Planetary Rings," Thomas Gold Lecture Series, Peter Goldreich, California Institute of Technology, Nov. 4, 8 p.m., Room 120 Ives Hall.

Biochemistry

"Molecular and Genetic Dissection of Mitosis in a Higher Eucaryote," David Glover, Cancer Research Campaign, Dept. of Biochemistry, Imperial College, London, Oct. 26, 12:20 p.m., 204 Stocking Hall.

Biological Sciences

A symposium honoring Leon Heppel, professor of biochemistry emeritus, to commemorate his 75th birthday, Oct. 24-25. All sessions will be held in Uris Auditorium.

Opening Remarks: Geoffrey V. Chester, Arts and Sciences, and Efraim Racker, session chairman, Oct. 24, 1:15 p.m.

"Signal Transduction in Neutrophils: The Role of Protein Kinase C and a Calcium-Requiring Proteinase," Bernard L. Horecker, Graduate School of Medicine, Oct. 24, 1:30 p.m.

"Cyclic AMP-Dependent Regulation of Some Species of Neuroblastoma A+RNA," Marshall W. Nirenberg, National Heart, Lung and Blood Institute, Oct. 24, 2:10 p.m.

"Biochemistry and Genetics — When Worlds Collide," Gerald R. Fink, Whitehead Institute, Oct. 24, 3:20 p.m.

"Molecular Biological Studies of H+ATPase of Escherichia coli," Masamitsu Futal, Osaka University, Japan, Oct. 24, 4 p.m.

Opening Remarks: Severo Ochoa, session chairman, University of Autonoma, Madrid, Spain, Oct. 25, 9 a.m.

"Line-1: Human Mobile Elements," Maxine F. Singer, National Cancer Institute, Oct. 25, 9:10 a.m.

"Complementary Enzyme Activation by Calmodulin and Proteolysis," Claude B. Klee, National Cancer Institute, Oct. 25, 9:50 a.m.

"Studies of the Role of T Antigen in SV40 DNA Replication," Jerard Hurwitz, Sloan-Kettering Institute, Oct. 25, 11 a.m.

"The Biochemistry and Molecular Biology of Anaerobic Electron Transfer Complexes of Escherichia coli," Joel H. Weiner, University of Alberta, Oct. 25, 11:40 a.m.

Opening Remarks: Quentin Gibson, session chairman, Oct. 25, 1:40 p.m.

"Biochemical and Genetic Studies on Polyamine Biosynthesis in Escherichia coli," Herbert Tabor, National Institute of Arthritis, Diabetes, Digestive and Kidney Diseases, Oct. 25, 1:50 p.m.

"Unveiling the Mechanism of ATP-Dependent Energization of Yeast Vacuolar Membranes: Discovery of a Third Type of H+translocating ATPase," Yasuhiro Amraku, University of Tokyo, Japan, Oct. 25, 2:30 p.m.

"Rhodopsin and Related Problems," Har Gobind Khorana, Massachusetts Institute of Technology, Oct. 25, 3:40 p.m.

"Mechanisms of Initiation of Chromosome Replication," Arthur Kornberg, Stanford University Medical School, Oct. 25, 4:20 p.m.

Biophysics

"The Left-Handed Double Helical Cross-linker Model for Chromosome Fiber Structure — A Proposal Based on Cryoelectron Microscopy X-Ray Scattering and Hydrodynamics," John Langmore, Biophysics Research Division, University of Michigan, Oct. 28, 4:30 p.m., 700 Clark Hall.

Boyce Thompson Institute

"Tubulin in Yeast," John V. Kilmartin, Medical Research Council, Laboratory of Molecular Biology, University Medical School, Cambridge, England, Oct. 28, 146 Morrison Hall.

Chemistry

"The Total Synthesis of Natural Products and the Design and Synthesis of Unnatural Products," Patrick Confalone, Dupont Central Research, Oct. 26, 4:40 p.m., 119 Baker Laboratory.

"Intermolecular and Surface Interactions in Complex Systems," Debye Lecture Series, Jacob Israelachvili, University of California, Santa Barbara, Oct. 27, 11:15 a.m., 200 Baker Laboratory.

"Direct Measurement of Forces Between Surfaces in Simple Liquids," Jacob Israelachvili, University of California, Oct. 28, 4:40 p.m., 119 Baker Laboratory.

"Long Range and Short Range Forces Between Surfaces in Aqueous Solutions," Jacob Israelachvili, University of California, Oct. 29, 11:15 p.m., 200 Baker Laboratory.

"The Structure of Chromatin and a Novel Class of Transcription Factors," Aaron Klug, Medical Research Council Laboratory of Molecular Biology, Cambridge, Oct. 29, 4:40 p.m., 200 Baker Laboratory. Nobel Laureate Lecture, 10th in a series sponsored by J.T. Baker, Inc.

Chemical Engineering

"Tales of Two Liquid Crystal Polymers," M. T. Shaw, Dept. of Chemical Engineering, University of Connecticut, Oct. 27, 4:15 p.m., 145 Olin Hall.

City and Regional Planning

"Planning in Pittsburgh," Robert Lurcott, director of planning, City of Pittsburgh, Oct. 23, 12:15 p.m., 157 E. Sibley.

Computer Science

"Diagnosis: A General Approach," Johann deKleer, Xerox PARC, Oct. 22, 4:30 p.m., B17 Upson Hall.

Computer Services

"The World of Lasers," Aaron Lewis, Applied Physics, Oct. 22, 12:20-1:10 p.m., 100 Caldwell Hall.

Ecology and Systematics

"The Ecological Impact of Lipid Accumulation by Zooplankton," Clyde E. Goulden, Div. Limnology and Ecology, Academy of Natural Sciences, Philadelphia, Oct. 28, 4:30 p.m., A106 Morison Seminar Room, Corson/Mudd Hall.

Economics

"Income Risk, Marriage and Migration in Rural India," Mark R. Rosenzweig, University of Minnesota, Oct. 23, 3:30 p.m., G93 Uris Hall.

Environmental Research

"Genetic Engineering in the United Kingdom: Environmental and Legal Issues," Yvonne Cripps, Cambridge University, Oct. 27, 12:30 p.m., 201 Hollister Hall. Brown-bag lunch seminar.

Floriculture

"Merging Wildness and Formality: Early Twentieth Century English Gardens," Paula Horrigan, Landscape Architecture Program, Oct. 29, 12:15 p.m., 404 Plant Science.

Food Science

"Close to the Customer," Mary E. Burris, Wegmans Food Market, Rochester, N.Y., Oct. 27, 4:30 p.m., 204 Stocking Hall.

Genetics and Development

"Genetic and Molecular Analysis of a Simple Meiotic System in Drosophila," Scott Hawley, Albert Einstein College of Medicine, Oct. 26, 4 p.m., 135 Emerson Hall.

Geological Sciences

"The Large-Scale and 3-Dimensional Structure of the Earth," John H. Woodhouse, Harvard University, Oct. 27, 4:30 p.m., 1120 Snee Hall.

History and Philosophy of Science and Technology

"The Politics of the NIH Extramural Program, 1937-50," Daniel M. Fox, Humanities in Medicine, SUNY, Stony Brook, Oct. 28, 4:30 p.m., 165 McGraw Hall.

International Studies

"NATO and the Limits of Alliance," Doug Stuart, Dickinson College, Oct. 22, 12:15 p.m., G-08 Uris Hall.

"The Prevalence and Consequences of Smoking in Developing Countries," Richard Peto, Imperial Cancer Research Fund, University of Oxford, England, Oct. 22, 12:20 p.m., N-207 Martha Van Rensselaer Hall.

"The Mahabharata: Myth, Epic, and Theology in the Emergence of Hinduism," James Fitzgerald, University of Tennessee, Oct. 23, 12:15 p.m., 360 Uris Hall.

International Studies

"Competitiveness and the Recent Development of Small Firms in Northern Italy," Georgio Alberti, Political Science, University of Bologna and ILR visiting professor, Oct. 28, 4:30 p.m., G-08 Uris Hall.

Jugatae

"Potential of arthropod predators for bio control of the house fly," Chris Geden, post doc, Schwardt Laboratory, Oct. 26, 4 p.m., A106 Corson/Mudd.

Latin American Studies

"Contactos y conflictos de lenguas en el Peru colonial," Jose Luis Rivarola, Pontifical University of Lima, Peru, Oct. 23, 4:30 p.m., 277 Goldwin Smith.

Mechanical and Aerospace Engineering

"Relativistic Magnetohydrodynamics of Astrophysical Jets and Discs," R.V.E. Lovelace, Oct. 27, 1 p.m., 282 Grumman.

"Applications of Fractals to Geophysics," D.L. Turcotte, Oct. 27, 4:30 p.m., 282 Grumman.

Chemists improve device to probe molecular structures

Cornell chemists have developed a powerful analytical device that can probe the structure and behavior of molecules at time scales of billionths of a second, quickly enough to reveal in great detail the nature of chemical reactions and molecular motion.

The technique, which is called "2D Fourier transform electron spin resonance (2D-FT-ESR) spectroscopy," is expected to become a fundamental new tool for chemists, according to Chemistry Professor Jack Freed, who directed the project, which is funded by the National Science Foundation and the National Institutes of Health.

"This technique will be important for studying the molecular nature of liquids, liquid crystals, polymers, proteins, biological membranes and an enormous range of other materials," Freed said. "There has been considerable interest by instrument companies in producing 2D-FT-ESR machines, and we believe they will be offered commercially over the next few years."

Measuring the spin of electrons

ESR, which already is widely used in a more elementary form by chemists, is similar to another profoundly important analytical technique in chemistry, nuclear magnetic resonance spectroscopy, or NMR. Both are based on the fact that the constituents of atoms — nuclei in the case of NMR, and electrons in the case of ESR — possess spin which makes them, in essence, tiny magnets. However, when pairs of electrons occur in atoms, those spins cancel out, producing a net magnetic field of zero.

In NMR, a powerful magnetic field is used to align those atomic nuclei which have spin — like the needles of compasses that align in the magnetic field of the earth. The atoms of hydrogen and nitrogen have nuclei with spin. (For hydrogen atoms, the nucleus is simply a proton, whereas for nitrogen it is a composite of protons and neutrons.) When bursts of radio waves are directed into the sample, the nuclear spins absorb energy, causing them to point in a different direction. After an instant, they realign themselves, re-emitting some of this absorbed energy as radio signals.

How those emissions vary with a changing magnetic field gives chemists important information about the structure of molecules containing the hydrogen or nitrogen atoms.

Far more rapid than NMR

ESR depends on the spin of unpaired electrons in atoms. The spin of an electron has a magnetic moment — a measure of the strength of its magnetic field — that is 1,000 times greater than that of protons (and even greater than other atomic nuclei). Thus, it is possible for electrons to absorb and re-emit energy much faster than nuclei. This enormous speed of absorption and re-emission makes ESR a far more rapid probe of molecules than NMR.

This means that, if chemists could develop sophisticated ESR techniques to match NMR, they could "see" in considerable detail such ultrafast phenomena as chemical reactions and molecular motions.

Freed said the technical challenges to

such a development have been great. Electrons absorb and re-emit microwaves, rather than radio waves, as in NMR. So in developing their advanced ESR, the Cornell scientists have had to develop electronics to produce and detect microwave pulses with great speed and precision.

In the past, chemists had been primarily restricted to "continuous wave" ESR techniques in which a continuous microwave signal was fed into a sample, he said. These techniques gave a much less clear view of the nature of the probe molecules.

For this reason, there has been a growing interest in developing techniques of using high-speed pulses of microwaves for ESR. Freed and his graduate student, Jeff Gorcetter, have now developed an ESR system capable of producing precise, high-powered microwave pulses 5 to 10 nanoseconds (billionths of a second) long. The detectors in this system can sample the resulting ESR signals a billion times a second to measure the behavior of the electron spins. The Cornell chemists also have developed sophisticated data-processing techniques to handle the immense amount of information streaming from the ESR instrument.

In practice, to study most molecules with ESR, chemists first must attach a special probe molecule that possesses an unpaired electron to the molecule to be studied. This "spin probe" or "spin label" is necessary because stable molecules that naturally possess unpaired electrons are rare in nature.

The ESR signal from this spin probe gives chemists information about the molecule to which it is attached. Similarly, to

study how molecules move and orient themselves in liquids, the chemists add a sample of spin probe to the liquid, and this probe "reports what it sees" as it permeates the liquid.

One powerful NMR method known as 2D-NMR involves sending several closely spaced pulses of radio waves into a sample and measuring the resulting signals. The changes in signals as the time between pulses changes offers chemists much greater insight into the structure of molecules.

Freed and Gorcetter have led in developing the comparable 2D-ESR technique utilizing microwave pulses 50 to 100 nanoseconds apart.

Finally, Fourier transform analysis, a powerful mathematical technique of breaking down a complex signal into its component parts, has given chemists enormous insight into the nature of NMR information, but this technique was not useful in ESR until wide enough bands of frequency could be produced and detected as in the Cornell spectrometer system. This typically requires frequency band widths about 1,000 times greater than for NMR.

The Cornell chemists have now developed a 2D-Fourier transform ESR system that can obtain a single complete ESR spectrum in less than a millionth of a second, and can measure rate processes occurring in several billionths of a second, fast enough to provide new insight by the 2D techniques about very rapid molecular processes condensed matter.

— Dennis Meredith

Executive urges strong business-school partners

A U.S. industrialist whose company has annual world sales of \$6 billion places a high priority on cooperation with universities to advance the science of business.

Robert W. Staley, executive vice president and chief administrative officer of Emerson Electric Co., sees partnerships between business and education as a key requirement for U.S. prosperity.

"Partnership between industry and business is extremely important today," Staley said in an address to the second annual Partners Day held by the Johnson Graduate School of Management on Oct. 15.

"The task of educational institutions is to advance the science of business, and the task of business is to advance the science of business. We must work together," he asserted.

Emerson, which is based in St. Louis, manufactures machinery and electrical equipment. About 20 percent of its sales are to foreign markets.

Concerned about future teachers

Staley was a member of the 1957 world championship rowing crew at Cornell, where he earned mechanical engineering and M.B.A. degrees. He said his company works closely with higher education because "the joint involvement of education and industry, working together to solve a problem, is just as important as funding a program."

"We are concerned about the future teachers who will teach our future executives. We must stop the brain drain from schools, professors attracted by higher salaries to other occupations. Forty percent of my company's contributions go to education, including the enhancement of faculty salaries."

Emerson Electric provides summer jobs for university students, hires professors who are on sabbatical leaves, retains university experts as consultants, and contributes money and equipment to academic programs, he said.

40 visiting executives

Partners Day brought to Cornell about 40 business executives from such firms as American Telephone & Telegraph Co., Bristol-Myers Co., Chase Manhattan Bank, Eli Lilly & Co., General Electric Co., General Foods Corp., International Business Machines Corp., Mobil Corp., S.C. Johnson & Son, Inc., General Motors Corp., Bank of Montreal, American Cyanamid Co., NYNEX

Corp., Merrill Lynch & Co. and others.

Most of the executives represented firms that provide funds and other assistance to the Johnson School. They met with students and faculty. Points made in lectures included:

- Dean Curtis W. Tarr: "Because of the tremendous energy required in management today, we will see boards looking at men in their 40s to be named CEOs [chief executive officers] and CEOs retiring earlier. I think it would be good for companies if they had five persons who were not involved in managing and could just think for a company and make recommendations."

- Alan K. McAdams, associate professor of managerial economics: Referring to a report that 100,000 Japanese business people work in the United States but only 8,000 American business people are in Japan, "From our joint M.B.A.-Asian Studies Program, we have graduates who are fluent in Chinese or Japanese, but I am disappointed that they are not more in demand by business."

- David M. Krackhardt, assistant professor of organizational behavior: "Power is the ability to get other people to do the work that needs to be done in an organization. Understanding networks [of employees] inside an organization and how they operate can make you powerful in that organization." In some cases, a secretary might be the most powerful person

- Dean Tarr: "The main reason that managers fail is because they can't lead people. Few managers fail as a result of technological weaknesses."

- Dick R. Wittink, professor of marketing and quantitative methods: "Advertising and promotion expenditures on package goods totaled \$53 billion in 1986. We may be wasting a fair share of this money. We really don't know how effective this promotion is."

— Albert E. Kaff



Warren room named for former dean

The three daughters of William I. Myers, former dean of the College of Agriculture, unveiled a plaque in tribute to their father on Oct. 14 at a ceremony during which Room 401 in Warren Hall was renamed the William I. Myers Seminar Room.

Marian Myers Kira, Margaret Myers McElwee, both of Ithaca, and Elizabeth Myers Martin, of Cincinnati, joined David L. Call, dean of the College of Agriculture and Life Sciences, in the unveiling before about 100 persons.

Elizabeth is the mother of Peter W. Martin, dean of the Law School, who attended the ceremony.

Myers, who died in 1976 at the age of 85, did his undergraduate and graduate studies at Cornell, receiving a Ph.D. in 1918. He had enrolled at Cornell to study farm management with the intention of returning to his family farm but was persuaded by several professors to pursue graduate education.

Myers joined the Cornell faculty in 1918. In 1933, in the midst of the Great Depression and the early days of the New Deal, President Franklin D. Roosevelt appointed Myers to reorganize and expand federal farm credit agencies.

He served as governor of the Farm Credit Administration from 1933 to 1938, when he was appointed chairman of Cornell's Department of Agricultural Economics. He served as dean of agriculture from 1943 to 1959.

"Cornell's agricultural studies and research are admired around the world because of the work Bill Myers started in international agriculture," Call said in his remarks at the dedication ceremony.

While dean, Myers established a cooperative program between Cornell's College of Agriculture and the University of the Philippines at Los Banos. One project which grew out of that cooperation was development in the 1960s of a high-yield strain of rice, called Miracle Rice, which enabled several Southeast and South Asian nations, including India, to become self sufficient in food.

Speaking for her family, Marian Myers Kira discussed her father's early years as a child on a dairy and tobacco farm in Chemung County, New York, and the two women who shaped his life: her grandmother and her mother.

Robert S. Smith, the William I. Myers Professor of Agricultural Finance Emeritus, spoke about Myers as a teacher, colleague and friend.

The dedication followed delivery of the annual W.I. Myers Memorial Lecture by Dr. Jim Johnson, chief of the economic

indicators branch of the Economic Research Service in the U.S. Department of Agriculture, who lectured on "Measurement of Farm Financial Performance: Empirical Issues and Current Status."

— Albert E. Kaff

Nelkin chosen for new visiting professorship

Dorothy Nelkin, a member of the faculty in the Department of Sociology and in the Program on Science, Technology and Society, has been named one of the first four Clare Boothe Luce Visiting Professors and will begin her two-year Luce appointment at New York University in January. The other Luce Professors were named to visit Brown, Columbia and Yale universities.

Nelkin has published more than 17 books since 1970 on the teaching of creationism, nuclear power, military research and occupational health, among other topics. Her latest book, "Selling Science: How the Press Covers Science and Technology," explores how journalists, through their selection of science news, set the agenda for public policy. Her research and writings focus on publicly disputed areas of science and technology, and the relationship between science and the public.

Nelkin's current research includes investigating the ethical and social implications of biomedical technology, and she has written on admitting children with AIDS to public schools and on how medical authorities shape the public perception of the risks associated with AIDS.

The Clare Booth Luce Visiting Professorships were established in January by the Henry Luce Foundation to encourage the advancement of women to the highest levels of academia. The program was named as a tribute to the late Clare Booth Luce, a journalist and diplomat, who died this month.

According to the Luce Foundation, women hold a majority of all faculty positions, but only 12 percent of the tenured university positions. The program's goal is "to demonstrate that there are numerous women in academia who meet the very highest standards of intellectual accomplishment," according to the foundation.



Commissions keep Cornell composer happy

"It's the world's biggest toy store for a composer." That's composer Steven Stucky's view of the three major commissions he has had so far to write orchestral works. "As long as I can keep this going, I will — because it's the most fun in the world, writing for an orchestra."

For Stucky, an associate professor of music, the next toy store will be one of the grandest. The Philadelphia Orchestra, with maestro Riccardo Muti, will perform his "Concerto for Orchestra" on Oct. 29, 30, and 31 at the Academy of Music. On Nov. 3, the work will be on the orchestra's program in Carnegie Hall in New York City.

Compositions for the Constitution

The concerto is one of six compositions commissioned by the orchestra for the year of the Constitution's bicentennial. Stucky wrote it during his last academic year on sabbatical in London on a Guggenheim Foundation grant.

He speaks of London as "in some ways the best musical city in the world. For new music composers, it's livelier and somewhat more diverse than what goes on in New York, what with their mixture of European and American music."

Stucky describes his new composition as "an abstract piece designed to exploit the sound of the particular orchestra" for which it was written, "meant to be brilliant and engaging for the players, with lots of solo playing, lots of playing by small groups, trying to give every member of the orchestra and every section of the orchestra a chance to do what they do best — and also with regard to the personality and temperament of Riccardo Muti."

"I think it's got some quite expressive music that general listeners will respond to," he added. "I hope so."

Reaching audience with new music

Stucky is pleased that the situation is improving for the acceptance of new music by American audiences. "It's partly through the efforts of American orchestras, which have lately been playing much more new music, and partly through the attitude of composers, who have become somehow less rarified and pure, and more interested in trying to bridge this chasm between them and their listeners."

"So I think there are now pieces that people like, and some good will is being built up between some listeners and those of us who are trying to reach them," he said.

After attending rehearsals and performances in Philadelphia, Stucky will head west to hear his "Dreamwaltzes" conducted by Andre Previn with the Los Angeles Philharmonic Orchestra Nov. 11, 12 and 13. The work was commissioned last year by the Minnesota Orchestra. His next composition will be written at the behest of the Baltimore Symphony next year.

Stucky has been a member of the Cornell music faculty since 1980. He received his Doctor of Musical Arts here in 1978.

— Irv Chapman

Cinema to present newsreel series

A series of documentary films on such subjects as sexual harassment, slum living, jazz, the impact of Latin music in the United States, Vietnam war protests, the Attica Prison rebellion and Cornell's 1969 Willard Straight takeover will be shown on campus Oct. 26-29.

Sponsored by Cornell Cinema, the series celebrates the 20th anniversary of Third World Newsreel, a network of film makers based in New York City who are committed to recording major cultural events and conditions of the time.

Showings are scheduled from 4 to 6 p.m. at the Herbert F. Johnson Museum of Art on Oct. 26, 27 and 28, and a retrospective is scheduled for 8 p.m. on Oct. 29 in Uris Auditorium.

Presenting their works and taking part in discussions will be guest film makers Christine Choy, Orinne J.T. Takagi, Gustavo Paredes and Doug Harris. For more details, see the Calendar on page 6 or call 255-3522.



Apollo's Banquet, an early-music ensemble, will play chamber works by Telemann and Bach on Oct. 25 at 4 p.m. in Barnes Hall Auditorium. Members of the ensemble are Judith Davidoff, viola da gamba and violoncello piccolo; Peter Wolf, harpsichord; Frederick Urrey, tenor; Stephen Berkelhammer, oboe and recorder; and Sonya Monosoff, violin.

Organist, baroque ensemble to give performances

An organ recital, a baroque ensemble concert and a lecture-recital about the harpsichord's modern repertoire are this week's offerings from the Department of Music.

Donald R.M. Paterson will present an organ recital in Anabel Taylor Hall at 8:15 p.m. on Oct. 23.

Paterson will perform music of the 1600s: Pasquini's "Partite sopra la Aria della Folia da Spagna," Froberger's "Ricercar," Sweelinck's "Variations on 'Unter der Linden Grune,'" Pachelbel's "Chaconne in F Minor," Couperin's "Benedictus," Lubeck's "Prelude and Fugue in C Major," and five chorale preludes by J.S. Bach and his "Tocata and Fugue in D Minor."

Paterson, who has been Cornell's organist since 1964, also is choir master at Sage Chapel, a theory teacher and a performer. He has given numerous recitals in Ithaca

and throughout the United States and Europe.

Apollo's Banquet

Apollo's Banquet, an early-music ensemble, will play chamber works by Telemann and Bach on Oct. 25 at 4 p.m. in Barnes Hall Auditorium. Members of the ensemble are Frederick Urrey, tenor; Stephen Berkelhammer, oboe and recorder; Sonya Monosoff, violin; Judith Davidoff, viola da gamba and violoncello piccolo; and Peter Wolf, harpsichord.

The following pieces by George Philipp Telemann will be performed: Cantata "Packer dich, gelahmter Drache"; "Sonata a Violino, Viola di Gamba"; Trio No. 7 in F for flute dolce, viola da gamba and basso continuo; and Trio No. 5 in A Minor for flute dolce, violin, and basso continuo.

The J.S. Bach pieces to be performed are

arias: "Ach senke doch den Geist der Freuden," "Auf meinen Flugeln sollst du schweben," "Wo ferne du den edlen Frieden" and "Concerto nach italienischem Gusto."

The New Jersey-based ensemble Apollo's Banquet was formed in early 1986 to perform instrumental and vocal chamber music of the baroque period, employing appropriate instruments and techniques. Members of Apollo's Banquet have performed together since 1976.

Lecture-recital

Mellon Postdoctoral Fellow Joyce Lindorff will give a lecture-recital on the development of the harpsichord's modern repertoire and perform appropriate pieces by Cowell, Zwilich, Stevens, Albright, Crockett and White on Oct. 28 at 4 p.m. in the Barnes Hall Auditorium.

Art museum prepares major exhibits for the road

The small, but extremely active staff of the Herbert S. Johnson Museum of Art is organizing two major exhibitions of contemporary artists that will travel to top museums from coast to coast, as well as being on view here on campus.

A retrospective of more than 50 works by painter Joan Mitchell will debut at the Corcoran Gallery of Art in Washington next February and go on to the San Francisco Museum of Modern Art, the Albright-Knox Art Gallery in Buffalo and the La Jolla (California) Museum of Art before being hung at the Johnson Museum after a year on the road.

An exhibition of works by sculptor Bryan Hunt will open at the Johnson Museum in March and then go on to the Fort Worth (Texas) Museum of Art, among others to be arranged.

In addition, two exhibitions previously on view at the Johnson Museum still are making the rounds of other museums. "Frank Lloyd Wright and the Johnson's Wax Building: Creating a Corporate Cathedral" will open soon at the High Museum in Atlanta. And the Lagoon Cycle of Helen and Newton Harrison, photo collages on an environmental theme that were shown here in 1986, will open in December at the Los Angeles County Museum of Art.

Sharing shows with other museums

"There aren't many university museums, if any, that would have the number of exhibits travelling to major museums that we do," observed Thomas W. Leavitt, director of the Johnson Museum. "To have two new exhibits of this importance in a single year is unusual."

"Since relatively few people can come to Ithaca to see our shows, we like to share them with other top museums," he said. "It does mean a lot of extra work for our staff, but many thousands of additional people get to view our exhibitions."

The shows are made possible by grants from the National Endowment for the Arts, other federal and state agencies, companies and foundations.

"Over the years, the Johnson Museum

has become nationally known for the quality and variety of its exhibits," Leavitt noted.

Judith E. Bernstock, assistant professor of the history of art, is guest curator for the exhibition, "Joan Mitchell: 36 Years of Natural Expressionism," as well as the author of the critical monograph to be published in conjunction with it.

American abstract painter

Mitchell, now in her 60s, was born in Chicago and trained at its Art Institute, but came to New York's Greenwich Village to begin her career as a colleague of Willem de Kooning and Franz Kline.

Mitchell moved to Paris in 1959 and has lived in the French town of Vetheuil since 1968, close to the house owned by the paragon of impressionism, Claude Monet. But she still is considered a member of the New York School and a leading American artist. Bernstock characterized her as "one of the strongest, most talented and inde-

pendent contemporary American artists."

"As a major abstract painter living in France, she is outstanding for her sense of tradition, for her success in synthesizing and transforming her dual heritage from abstract expressionism and the French masters Cezanne, Van Gogh and Matisse."

Asked to explain the comparison with the French masters, Bernstock said, "Her paintings are similarly concerned with a truthful expression of feelings that emerge in response to the beauties of nature. Energized by vibrant colors and forceful brushwork, her canvases almost burst into chaos, but are stabilized by her strong sense of discipline."

Bryan Hunt, 40, is an internationally known sculptor who is also active in print making, drawing and photography. Nancy E. Green, associate curator of prints and photographs at the Johnson Museum, is organizing the Hunt show.

— Irv Chapman

Gibian adds to previous translation of underground Russian literature

"... a man in a black coat and tall boots came into the room. Behind him entered two military men, privates, with rifles in their hands, and behind them was the janitor." In this fragment of a story, the two people in the room thus invaded were taken away by the armed men.

The author of the story, Daniil Kharmis, was himself taken away in similar fashion in 1941, along with fellow writer Alexander Vvedensky. They were citizens of Stalin's Russia, where their works had gone unpublished, and were never seen again.

George Gibian uncovered some of this underground writing beginning in 1965, and more has come out of the Soviet Union in the years since. Gibian is Goldwin Smith Professor of Russian and Comparative Literature. Cornell University Press published his translated selections in 1971, and now he has produced a revision that includes previously unavailable works, "The

Man in the Black Coat: Russia's Literature of the Absurd." The publisher this time is Northwestern University Press.

The two writers and their literary group "saw the ironies in their surroundings and displayed irony in their writings," Gibian observes. They "combated the petrification, immobility of taste and hypocrisy of the world around them." Out of favor as authors, they could earn a living by writing only children's stories.

Their works were circulated among a small circle of followers, read aloud at meetings with friends, including some of the avant garde painters whose works gained fame in the 1920s. "Their works are a comment on the grimness of life in all ages, on the lack of contact and human communication," Gibian writes. "But those conditions are all the more specific to the U.S.S.R. under Josef Stalin."

— Irv Chapman

Job Opportunities

October 22, 1987
Number 40
Office of Human Resources
Cornell University
160 Day Hall
Ithaca, New York 14853-2801

In compliance with the Immigration Reform and Control Act of 1986, Cornell University is now required to check the identity and employment eligibility of all new hires.

Effective June 1, 1987, if you accept a position, you must show documents on or before your first day of work, that indicate your identity and employment eligibility; for example, a state issued driver's license and a birth certificate. For more information, contact Staffing Services, 255-5226.

-Send cover letters & resumes to Staffing Services, 160 Day Hall, Cornell University, Ithaca, NY 14853.

-Employment & employee transfer applications forms are available at both Staffing Services locations-160 Day Hall & East Hill Plaza.

-Requests for referral &/or cover letters are not accepted unless specified in the ad.

-Cornell University is an Affirmative Action/Equal Opportunity Employer.

-This listing is also available on CUINFO, Cornell's computerized info service.

Administrative and Professional

Minimum salaries listed are for recruitment purposes only.

ADMINISTRATIVE SUPERVISOR II (PA4007) Olin Libr. Admin. Operations

Resp. for daily operation of acctg. offc.: analysis of operating data, maint. of operating acctg. & hiring/supv. of acctg. staff.

Req.: BS in acctg. or equiv. Previous supv. & acctg. exp. req. Knowl. of CU acctg. system pref. Familiar with Lotus 123, dBase III. Letter & resume to Cynthia Smithbower by 10/30.

ENERGY TECHNICIAN (PA4005) Coop. Ext., NYC

Perform energy surveys for small business & non-profit clientele. Promote Small Business Energy Efficiency Program. Provide ed. material on energy conservation to target audiences.

Req.: AAS in sci. or equiv. Good comm. (written/oral) skills. Able to climb ladders & lift 30+ lbs. Letter & resume to Cynthia Smithbower by 11/5.

RESEARCH SUPPORT SPECIALIST (PT4002) Animal Science

Visit dairy farms weekly to supv. collection of samples & data; monitor mgmt. programs with respect to experimental protocol. Summarize & analyze data. Supv. undergrad., grad. & technicians. Coord. study with approp. faculty & industry people. 10 month appt. Renewal depends upon grant funding.

Req.: BS in An. Sci. with 2-3 yrs. related dairy farm exp., MS with emphasis in dairy cattle reproduction, nutrition &/or dairy mgmt. pref. Exp. with dairy cattle essential. Strong comm./interper. skills nec. Famil. with stat. analysis & software pkgs. Letter & resume to Judi Deane by 11/6.

SYSTEMS PROGRAMMER/ANALYST II (PT4003) Theory Center

Provide software support for all aspects of Theory Center's networking efforts.

Req.: BS in computer sci. or equiv. ed. & exp. Demonstrated expertise in UNIX & C lang. prgrmg. UNIX systems prgrmg. exp. highly desir. Understanding of DARPA networking protocols such as TCP/IP & their implementation in Berkeley UNIX. Letter & resume to Judi Deane by 11/6.

RESEARCH SUPPORT SPECIALIST I (PT317) Entomology

Assist in research prog. on evolution of insect-plant associations. Manage all phases of lab oper., supv. staff & students, coord. & org. experiments in 2 large research projects & assist in design & analysis of experiments.

Req.: BS in bio. plus 1 1/2 yrs. exp. in research lab. Trng. in evolution & ecology, exp. in handling insects, use of computer & microscopes & working under field conditions highly desir. Letter & resume to Judi Deane by 10/30.

RESEARCH SUPPORT SPECIALIST I (PT205) Ecology & Systematics

Participate in research on field ecology & epidemiology of insect-transmitted diseases of plants. Develop & conduct field & lab exp., maint. of insect colonies & data analysis. Some weekend work.

Req.: BS or MS in bio., entomology, plant path. or related field or equiv. Field & greenhouse exp.; knowl. of ecology & agriculture. Statistics & computer use with reference to biological or agronomic data. Letter & resume to Judi Deane by 10/30.

CO-OP COORDINATOR I (PC3910) Dining

Administer contract dining plan (co-op) & maintain related computerized database.

Req.: AAS & 1-2 yrs. exp. in related area or equiv. Exc. org./customer relations skills essential. Letter & resume to Esther Smith by 10/23.

SR. SYSTEMS PROGRAMMER/ANALYST (PT3904) Theory Center

Design, implement, install, document & maintain systems software or significant subsystems in VM-based systems, primarily VM/XA.

Req.: BA or equiv. with related computer courses. Reasonable exp. with VM operating systems & significant subsystems; knowl. of hardware concepts related to software issues; knowl. of IBM/370 assemble language essential. Letter & resume to Judi Deane by 10/30.

TECHNICAL SPECIALIST I (PT3902) Program of Computer Graphics

Provide systems level guidance & support for large scale research projects, develop optimal hardware & software solutions, provide technical advice. Beta-test products, manage & develop expanding networked prgrmg. environ.

Req.: BS in Comp. Sci./Comp. Graphics, MS pref. or equiv. with related computer courses. Ext. knowl. of VAX/VMS system. Able to evaluate perf. characteristics of hardware & software; knowl. of software engr. principles, 3-dimensional graphics, parallel methods, C & FORTRAN languages, UNIX & ULTRIX. Letter & resume to Judi Deane by 10/30.

TECHNICAL SPECIALIST I (PT3905, PT3906) Theory Center

Show leadership in designing & adapting functional enhancements to VM-based systems, primarily VM/XA. Provide troubleshooting support to uncover errors & handle complex problems. Design, implement, install, document

& maintain systems software or significant subsystems in VM-based systems.

Req.: BA with computer courses in operating system fundamentals, 4-5 yrs. exp. with VM operating systems & significant subsystems; knowl. of hardware concepts related to software issues. Knowl. of IBM/370 assemble language essential. Letter & resume to Judi Deane by 10/30.

TECHNICAL ADVISOR (PT3901) Theory Center

Advise personnel & remote users of Theory Ctr. facil. on network planning, implement & use. Participate in research, development & prototype projects.

Req.: BS with knowl. of least 1 scientific discipline desir. Min. 3 yrs. conc. exp. with computer networks, espec. LAN's. Knowl. of how wider-area TCP/IP networks behave in actual use. Ext. knowl. of TCP/IP protocols & implementation; strong knowl. of ISO protocols & standards & awareness of current protocol developments. Letter & resume to Judi Deane by 10/30.

MANAGING EDITOR (PC3511) Hotel Admin.

Supv. production of busn. journal related publications. Copy-edit manuscripts; write; proofread; production scheduling (incl. coord. efforts with staff members/freelancers/vendors).

Req.: BA pref. in English & 2 yrs. editing or mgmt. of prints publications, WP & page-layout software. Exp. with writing & hospitality industry. Letter & resume to Esther Smith.

Clerical

REGULAR EMPLOYEES Submit an employee transfer application, resume & cover letter.

Career counseling interviews are available by appt. EXTERNAL APPLICANTS Submit an employment application & resume to Esther Smith or Laurie Worsell. Interviews are conducted Tues. & Wed. at Staffing Services, East Hill Plaza by appt. only. Qualified applicants will be contacted after materials are reviewed.

OFFICE ASST., GR15 (C4010) Media Services

Assemble, prepare & ship orders for publications & other printed material; file orders & maintain records; assist in handling phone & walk-in orders; collate & stuff. Other duties as assigned.

Req.: H.S. dip. or equiv. Lt. typing. Good reading/writing (legible) skills. Able to learn use of electronic scales, postage meter, stapler, copier. Min. Biweekly: \$381.55

OFFICE ASST., GR17 (C4002) Construction Management

Act as receptionist; answer phone; WP; xerox; schedule mtgs.; make travel arrangements. Other duties as assigned.

Req.: H.S. dip. or equiv. Sec. school desir. Heavy typing. Good interper./comm. (written/oral) skills. Set priorities & work in complex, active environ. Min. Biweekly: \$421.81

SECRETARY, GR18 (C4005) Alumni Affairs

Provide sec. support to 2 Asst. Dir.'s & class programs. Type corresp.; answer phones; coord. & type class letters & prepare mass mailings; assist with major alumni programs: reunion, midwinter mtg. in NYC, Homecoming & other events. Assist visitors in Alumni House. Make travel arrangements.

Req.: H.S. dip. or equiv. Sec. school desir. Min. 1-3 yrs. sec. exp. Computer knowl. pref. (Wordperfect). Strong comm. skills. Min. Biweekly: \$444.37

ACCTS. ASST., GR19 (C4009) Summer Session

Maintain acctg. records; process payables, journal vouchers; reconcile acctg. utilizing CUDAS; provide financial reporting; type; file.

Req.: AAS or equiv. Min. 2-3 yrs. acctg. exp., CU acctg. pref. Lt. typing. Knowl. of IBM PC, Lotus 123, dBase III & Wordperfect req. Good comm. & org. skills essential. Min. Biweekly: \$470.80

SECRETARY, GR19 (C4011) Floriculture & Ornamental Horticulture

As Grad. Field sec., resp. for admin. aspects of Grad. Field Program; incl. sec. support for 3 faculty & grad. students; type corresp., research proposals; answer phones; maintain files. Other duties as assigned.

Req.: AAS or equiv. Min. 1-3 yrs. offc. exp. Displaywrite, Wordperfect & dBase exp. pref. Dictaphone exp. desir. Exc. comm. & org. skills. Heavy typing. Min. Biweekly: \$469.53

ACCTS. COORD., GR20 (C3818) Theory Center

Develop & maintain acctg. records. Coord. income & expenditure tracking using CUDAS system; monitor A/P & A/R & inventory.

Req.: AAS or equiv. Knowl. of PC's (IBM), dBase III, Lotus & Wordperfect helpful. Knowl. of CU financial procedures helpful. Min. Biweekly: \$496.80

ADMINISTRATIVE AIDE, GR20 (C2617) Health Services

Assist Health Ed. staff with admin. of programs & manage daily offc. operations. Assist student volunteers & other staff members collaborating on health ed. programs. 9 month position.

Req.: AAS or equiv. 3-5 yrs. offc. exp. req. Exc. skills & exp. using computers (MacIntosh). Strong org. & comm. (written/verbal) skills. Able to work independ. Heavy typing. Min. Biweekly: \$496.80

ACCTS. ASST., GR20 (C4001) Conference Services

Develop & maintain accurate acctg. records. Process personnel & payroll forms; provide invoicing & financial reporting.

Req.: AAS in acctg. or equiv. Min. 2-3 yrs. CU acctg. exp. Knowl. of IBM PC, Lotus 123, dBase & Wordperfect helpful. Good interper./comm. (written/oral) skills. Set priorities & work in a complex, active environ. Min. Biweekly: \$496.80

ACADEMIC COMPUTER CTR. COORD., GR22 (C3416) Hotel Admin.

Manage, maintain & coord. video ctr. operations. Schedule classes, equip. & 25 student employees. Comm. computer cts. schedules & info. on regular basis to faculty & students; resp. for maint. of all video & computer software & hardware.

Req.: AAS in computer sci. or equiv. Knowl. of microcomputers operation & software (IBM PC & Mac) nec. Supv. exp. highly desir. Able to interact with a variety of people on a regular basis. Letter & resume to Esther Smith. Min. Biweekly: \$556.14

General Service

REGULAR EMPLOYEES Submit an employee transfer application to Staffing Services, East Hill Plaza. EXTERNAL APPLICANTS: Employment applications are available at Staffing Services, East Hill Plaza 9-noon, Mon.-Thurs.

PROGRAM AIDE, GR17 (G4001) NYC Coop. Ext.-New York City

Work with low income families & children to acquire knowl. & skills for improving nutritional quality of their diets. Teach mothers & youths essentials of nutrition & increase their knowl. & skills in selecting & using foods.

Req.: H.S. dip. or equiv. req. 3 week req. training course prior to employment. Able to read & write & do simple arithmetic. Knowl. of New York City communities. Min. Biweekly: \$420.76

SHORT ORDER COOK, SO18 (G3709) Dining-Endowed

Prepare & serve food directly to customers from short order area. Shift subject to change.

Req.: H.S. dip. or equiv. 6-12 months related exp. Familiar with short order equip. Able to prepare a variety of short preparation foods under pressure. Good customer relations skills. Min. hourly: \$5.71

ELECTRICAL MOTOR REPAIRPERSON (G4003) M&SO

Repair AC motors, bearings, starting switches, pulleys, fans, drives, generators, & various electrical equip. & systems.

Req.: H.S. dip. or equiv. Min. 7 yrs. exp. in motor & assoc. equip. repair. Strong electronics bkgnd. Valid NYS driver's lic. Able to lift 100 lbs., work in confined areas & climb ladders. Must be member of Electricians Union or qualified to join in 30 days.

Technical

REGULAR EMPLOYEES: Submit an employee transfer application, resume & cover letter. EXTERNAL APPLICANTS: Submit an employment application, resume, & list of laboratory techniques/equipment, or computer languages/hardware with which you are familiar. Submit a cover letter for each position for which you apply, (specify title, dept. & job number) to Judi Deane 160 Day Hall. Interviews are conducted the first Thursday of each month from 1:30-4:30 p.m. at Staffing Services, East Hill Plaza. The following backgrounds are highly desired: biochem., chem., microbio., elect., physics, lic. animal health tech. No appt. is necessary, however a brief wait may be required.

TECHNICAL ASST., GR15 (T4009) Entomology-Geneva

Maintain onion maggot & mite cultures, conduct bioassay experiments & assist in field research plots. 1 yr., possible renewal.

Req.: H.S. dip. or equiv. Some exp. in lab & field pref. Familiar with onion maggot rearing & bioassay procedures. Letter & resume to Dr. J.P. Nyrop, Rm. 324, Barton Lab, Geneva Exp. Station, Geneva, NY. Min. Biweekly: \$381.55

TECHNICAL ASST., GR15 (T4009) Entomology-Geneva

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Req.: H.S. dip. or equiv. Some exp. in lab & field pref. Familiar with onion maggot rearing & bioassay procedures. Letter & resume to Dr. J.P. Nyrop, Rm. 324, Barton Lab, Geneva Exp. Station, Geneva, NY. Min. Biweekly: \$381.55

TECHNICIAN, GR18 (T4010) Food Sci. & Tech.-Geneva

Receive & prepare for analysis samples of feeds, fertilizers & liming materials. Perform analyses & evaluations. Maintain official custody of samples for QA/QC.

Req.: AAS or equiv. with exp. NYS driver's lic. Good mech. aptitude desir. Letter & resume to C.A. Hibbard, Box 15, Roberts Hall, Cornell Univ., Ithaca, NY. Min. Biweekly: \$443.13

TECHNICIAN, GR18 (T4002) Equine Drug Testing

Perform routine lab. analysis of blood & urine samples. Assist lab dir. as req. Sat., Sun. & holidays incl. 1:30-10:00 p.m.

Req.: AAS in chem. or med. lab tech. or equiv. exp. Knowl. of thin layer chromatography & general lab procedures. Apply by 10/30. Min. Biweekly: \$443.13

TECHNICIAN, GR18 (T4001) Equine Drug Testing

Perform routine analysis of horse blood & urine in a field lab at Monticello Raceway. Sat., Sun. & holidays incl. 1:30-10:00 p.m.

Req.: AAS in chem. or med. lab tech. Knowl. of thin layer chromatography & general lab procedures. Apply by 10/30. Min. Biweekly: \$443.13

TECHNICIAN, GR19 (T4004) Vet Micro., Immunology & Parasitology

Maintain artificial flea feeding system & larval cultures, conduct exp. according to protocol, handle flea infested cats, maintain lab equip. & supplies & supv. students. Weekend hrs. req.

Req.: BS in bio. sci. or related area with exp. in artificial rearing of insects, specifically fleas. Knowl. of parasitology req. Valid NYS driver's lic. Min. Biweekly: \$469.53

ANIMAL HEALTH TECH., GR20 (T4007) Vet. Med. Teaching Hosp.

Provide supportive therapy for ICU patients & assist with emergency procedures. Teach intensive care & emergency protocol to students assigned to ICU. Evenings & weekends.

Req.: AAS & NYS license or eligible for licensure. 3 yrs. related exp. Willingness & interest in teaching Critical Care techniques. Pre-

employment physical req. Letter & resume to Judi Deane by 11/6. Min. Biweekly: \$495.35

TECHNICIAN, GR20 (T2905) Biochemistry, Molecular & Cell Biology

Conduct experiments on mitochondrial protein transport, membrane reconstruction, measurement of mitochondrial membrane potential.

Req.: BS or equiv. exp. in biochem. Basic biochem. lab exp. incl. some exp. in use of spectrophotometers, centrifuges, etc. Apply by 10/30. Min. Biweekly: \$496.80

ELECTRONICS TECH., GR20 (T3502) Theory Center

Install & maintain computer related equip. & equip. as nec. Perform computer backups.

Req.: AAS or equiv. in electronics. Exp. wiring various networks helpful. Computer exp. helpful. Able to work independ. essential. Good comm. skills. Apply by 10/30. Min. Biweekly: \$496.80

ANIMAL HEALTH TECH., GR20 (T4005) Vet. Med. Teaching Hospital

Assist with procedures performed in ultrasound cardiology unit. Educate, supv. & asst. students, AHT externs & staff as to proper procedures of animal health care for clinical patients.

Req.: AAS NYS license (or eligible for licensure). 3 yrs. related exp. Pre-employment physical req. Apply by 11/6. Min. Biweekly: \$495.35

ANIMAL HEALTH TECH., GR20 (T3904) Vet. Med. Teaching Hospital

Assist with procedures performed in Ultrasound cardiology unit. Prepare & restrain animals for ultra-sound exams, echocardiograms, electrocardiograms & phonocardiograms.

Req.: AAS. Licensed NYS (or eligible for licensure). Exp. extremely desir. Pre-employment physical req. Apply by 10/30. Min. Biweekly: \$495.35

TECHNICIAN, GR20 (T3903) Agronomy

Provide support for research requiring expertise in biochem. analysis of specific mRNA's, activities of enzymes & amounts of storage proteins in plant tissues. Culture bacteria containing cDNA plasmids, extract & purify DNA from bacteria & mRNA from plants & perform hybridization assays.

Req.: BS in bio., biochem. or chem. or equiv. Exp. with basic lab equip. & able to learn new techniques & procedures. Apply by 10/30. Min. Biweekly: \$495.35

NETWORK COMMUNICATION TECHNICIAN II, GR22 (T3901, T3902) UCS-Network Communications

Assemble, test, install & maintain terminal, microcomputer based gateways, LANS & other data comm. equip.

Req.: AAS in elec. or equiv. 1-3 yrs. related exp. Good interper., org. & time mgmt. skills req. Valid driver's lic. & good driving skills nec. Familiar with data comm. pref. Apply by 10/30. Min. Biweekly: \$556.14

Part-Time

SECRETARY, GR17 (C3407) Nutritional Sci.

Sec. support for EFNEP staff. Type corresp. & manuscripts; type from tapes & rough drafts; proofread; assist with large-scale mailings; make travel arrngmts., filing. Other duties as assigned. Mon.-Fri.; 20 hrs./wk. Contingent on renewed funding.

Req.: H.S. dip. or equiv. Med. typing. Sec. skills (proofreading, type from tapes, etc.). Familiar with CU procedures. Exc. org., interper. & comm. (written/oral) skills. Exp. with IBM PC (Wordperfect) desir. Min. full-time equiv.: \$420.76

TECHNICAL ASST., GR17 (T4003) Vet Physiology

Under close supv., asst. in RIA's, column chromatography, blood collections & prep., reproductive evaluations & endoscopy & canine semen collection & evaluation.

Req.: H.S. dip. or equiv. exp. 1 yr. exp. in lab environ. desir. Familiar with tech. terminology. procedures. Letter & resume to Judi Deane by 11/6. Min. full-time equiv.: \$420.76

COOK, SO18 (G3302, G3303) Residence Life-Endowed

Clean, prepare & cook food for Univ.-owned fraternity. Clean all food prep. areas, cooking areas & assist in keeping storerooms & refrigerators sanitary. Aid student steward in menu-planning & food purchases as needed. P-T; 20 hrs./wk.

Req.: H.S. dip. or equiv. 1-3 yrs. cook exp. Able to follow recipes, operate standard food prep. & cooking equip. Exp. in large quantity prep. essential. Good org. skills. Able to work with little supv. pref. Apply at East Hill Plaza Staffing office, Mon.-Thurs., 9 a.m.-noon. Min. hourly: \$5.71

SECRETARY, GR18 (C4013) Alumni Affairs

Sec. support to Dir., Alumni Affairs & Exec. Asst. in carrying out alumni activities, Answer phones; greet visiting alumni to Alumni House. Other duties as assigned. Mon.-Fri., 4-6 hrs./day.

Req.: H.S. dip. or equiv. Sec. school desir. Some offc. exp. pref. Good comm. (written/oral) skills. Wordperfect exp. helpful. Med. typing. Min. full-time equiv.: \$444.37

ADMINISTRATIVE SECRETARY, GR20 (C2902) Chemistry

Provide admin. & sec. support to professor & research group. Manage production of manuscripts & research proposals (assist in TV scripts). Admin. all aspects of offc. during professor's absence; arrange travel, seminars. Mon.-Fri. 30+ hrs./wk.

Req.: AAS or equiv. Knowl. of Chemistry helpful. Able to read German/Russian helpful. Heavy typing. Min. 2-3 yrs. sec. exp. incl. knowl. of CU manuscript, grant proposal & lab systems. Min. full-time equiv. \$496.80

ANIMAL HEALTH TECH., GR20 (T4006) Vet. Med. Teaching Hosp.

Provide supportive therapy for ICU patients & assist with emergency procedures. teach intensive

care & emergency protocol to students assigned to ICU. Evenings & weekends-24 hrs.

Req.: AAS & NYS license or eligible for licensure. 3 yrs. related exp. Willingness & interest in teaching Critical Care techniques. Pre-employment physical req. Letter & resume to Judi Deane by 11/6. Min. full-time equiv.: \$495.35

SECURITY GUARD (G4002) Johnson Museum

Guard all works of art in bldg., follow security & safety procedures. Interact with public, staff & be avail. day or evenings for special events.

Req.: H.S. dip. or equiv. Able to work with schedules & in group situation. Bkgnd. in security area helpful. Dependable & attentive to detail. Good comm. skills. Min. hourly: \$5.11

SYSTEMS PROGRAMMER/ANALYST II (PT4006) Modern Lang. & Ling.

Support speech synthesis & analysis in Phonetics lab. Genral resp. for maintaining software on several computer systems, incl. SUN 160c Workstation (Unix), IBM-PC/AT (DOS), PDP 11/73 (RSX, RT-11) & PDP 11/40 (RT-11). Develop systems software; help developers of applications software with system specific problems; port existing software to new computers; interface existing software with specific hardware (such as A/D converters); develop & maintain networks; enhance existing software with new features (incl. graphics display of data); applications program development; write documentation. 20 hrs./wk.

Req.: BA/BS or equiv. exp. & training. 2 yrs. related exp. Knowl. of Unix & C. Knowl. & interest in signal processing useful. Letter & resume to Judi Deane by 11/6.

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Graduate Bulletin

Travel Grant Applications are due at the Graduate Fellowship Office, 116 Sage Graduate Center, by Nov. 1 for January conferences. Application forms are available at graduate field offices. Full-time registered students in the Graduate School who have been invited to present papers at conferences may apply for a travel grant.

Course Changes: Oct. 23, last day without petition and fee.

NSF Fellowship applications were mailed to Graduate Faculty Representatives. Extra applications available at Sage Graduate Center.

Fellowship Notebook, a listing of external awards for graduate students, is now available in each of the Graduate Field Offices.

Applications for DAAD: Heidelberg, Berlin and Göttingen Exchange Fellowships: Fellowships carry tuition and fees, monthly stipend and round-trip air transportation for study at a West German university or to do research abroad. Students arrange transportation. Awards restricted to full-time study at the university.

Applications should include project outline and/or rationale for study abroad, two letters of recommendation from professors in the student's field, local address and telephone number. Applications due Nov. 9 to Prof. Herbert Deinert, 188 Goldwin Smith Hall, telephone 255-8356; or Marguerite Mizelle, 191 Goldwin Smith Hall, telephone 255-4047.

CUINFO now has listing of Graduate School news under "Academic," then "Grad."



Jobs

Other duties as assigned. P-T, temp. until 12/23/87.

Req.: AAS 2 yrs. college of equiv. Lt. typing. Knowl. of bibliographic verification systems & tools, accuracy & ability to handle detail req. Knowl. of French, German or Spanish desir. Letter & resume to Michele Draiss, 235 Olin Library.

Academic

EXTENSION SPECIALIST-SEA GRANT (MARINE RECREATION INDUSTRY SPEC. (A4001) Coop. Extension-Riverhead, NY

BA/MS in outdoor recreation, resources mgmt., natural resources mgmt., marine sci., wildlife mgmt./bio. or marine resource mgmt. 4 yrs. exp. related to marine, coastal or natural resources with approp. BS. An MS can substitute for 1 yr. exp. Send letter of intent & resume to Sally Bartholomew, 212 Roberts Hall, Cornell University, Ithaca, NY 14853 by 10/29. Salary: \$28,380, commensurate with qualifications.

PROFESSOR, HOSPITALITY HUMAN RESOURCES (A4002) Hotel Admin.

Send letter of application, resume & supporting materials to Dr. David C. Dunn, Assoc. Dean for Academic Affairs, School of Hotel Administration, Cornell University, Ithaca, NY 14853.

RESEARCH ASSOC. (A4003) Materials Sci. & Engr.

Send letter & resume to Lorraine Glann, Dept. Materials Sci. & Engineering, 126 Bard Hall, Cornell University, Ithaca, NY 14853.

SR. RESEARCH ASSOC. (A4004) Lipid Nutritional Biochemistry

Send application, resume, research statement & references to: Prof. J.E. Kinsella, Institute of Food Science, 106 Stocking Hall, Cornell University, Ithaca, NY 14853. 607-255-7916.

ASST. PROFESSOR (A4005) Physics

Send resume, summary of research interests & names of 3 references to Prof. Vinay Ambegaokar, Chairman of Search Committee, Lab of Atomic & Solid State Physics, Clark Hall, Cornell University, Ithaca, NY 14853-2501 by 12/31.

Tailgating crackdown starts this weekend

Rules to curb excessive noise and drinking at tailgate parties will be enforced starting with this Saturday's football game against Dartmouth.

Announcement of the new restrictions was made jointly by David Drinkwater, the dean of students, and Laing Kennedy, the director of athletics.

"Tailgating and football are like mom and apple pie," said Kennedy, "but some people have been throwing noisy, four-hour beer parties without even going to the game."

While traditional tailgating will not be curbed, the following restrictions will be enforced by three-member teams from the Offices of Public Safety, Athletics and Campus Life:

- No kegs or beer balls will be allowed.

- No exterior, amplified sound systems can be played.

- Tailgaters should leave parking fields by game-time; and lots must be cleared an hour after the game.

- State laws and campus regulations concerning alcohol consumption by minors will be strictly enforced.

Drinkwater and Kennedy also reminded tailgaters that trash cans should be used and that a parking permit is for one car and one space.

The new rules will make traditional tailgating more pleasant, they said, while responding to visitors' complaints that overzealous celebrants have strewn garbage in parking areas and damaged cars. The rules will be enforced campuswide.

— Sam Segal

Junior awarded Brettschneider Scholarship

Gerald Troy Smith, a biology major in the College of Arts and Sciences, is spending the 1987-88 academic year studying neurology and zoology at Pembroke College of Oxford University in England under a \$1,800 award from the Abraham and Henrietta Brettschneider Scholarship Fund.

The fund was established in 1983 by brothers L. Michael Borkan, who graduated from Cornell in 1979, and Howard Borkan, who graduated in 1981, in memory of their maternal grandparents.

Former British ambassador to speak

Sir Oliver Wright, former British ambassador to the United States, will speak on U.S.-British relations when he delivers the John M. Clark Fellowship Lecture on Oct. 28 at 4:30 p.m. in Bache Auditorium in Malott Hall.

The title of his address is "The Thatcher Revolution: Implications for United States and United Kingdom Relations."

He also will meet faculty and students of the Law School at lunch.

Smith, a junior from Colorado Springs, Colo., is one of 18 Cornell students spending their junior year studying at various Oxford colleges under the auspices of the Cornell Abroad Program.

Council Continued from page 2

the stadium and Nature Center activities. It also has arranged to deck Barton Hall with 100 trees, live trout and stuffed birds — and to fill the air with recorded bird-song — so that nature can soothe and inspire guests during several receptions, dinners, musical entertainment sessions and the bar-becue that precedes Saturday's football game with Dartmouth.

Some other non-business activities scheduled through the weekend were tours to survey campus life and to see the Cornell Plantations, the Ornithology Laboratory and the Performing Arts Center, which is moving toward completion.

Tickets for some of the business meetings are available on a limited basis to the public. Those interested should check the information center in the lobby of Day Hall.

CALENDAR

Continued from page 7

Microbiology

"A Comparison Between Intestinal Immunity to Nematodes in Mice and Pigs: Changes in Intestinal Mast Cells and Reagin Antibodies," Joseph Urban, U.S. Department of Agriculture, Beltsville, Md., Oct. 26, 12:15 p.m., G-3 Vet Research Tower.

"Evolution of Viral Genes: Comparison of Cognate Reovirus Genes Across Serotypes 1, and 3 and Analysis of the Serotype 3 Genome," Dr. Jon R. Wiener, Dept. of Microbiology and Immunology, Duke University Medical Center, Durham, NC, Oct. 28, 12:15 p.m., Hagan Room (C-109 Schurman Hall, Vet College).

"Progress in the Development of a Human Malaria Vaccine," James F. Young, Dept. of Molecular Genetics, Smith, Kline and French Labs, Oct. 29, 4:30 p.m., 124 Stocking Hall.

Near Eastern Studies

"Images of Yemen," Heather Behn, grad student, Dept. of Near Eastern Studies, Princeton University, Oct. 28, 12:15 p.m., 374 Rockefeller Hall.

Neurobiology and Behavior

"Cellular Substrates of Associative Memory in Mollusc and Mammal," Dan Alkon, Lab Biophysics, NIH, Bethesda, MD, Oct. 22, 12:30 p.m., Morison Room, Corson/Mudd.

Ornithology

"Cooperative Breeding in the Acorn Woodpecker," Ron Mumme, Dept. Neurobiology and Behavior, Oct. 26, 7:45 p.m., Laboratory of Ornithology, 159 Sapsucker Woods.

Plant Biology

"Nodulation in Alfalfa: A Developmental Pathway," Ann Hirsch, Wellesley College, Oct. 23, 11:15 a.m., 404 Plant Science Building.

Plant Pathology

"Molecular Genetics of Plant Disease Determinants in Two Contrasting Model Pathogens: *Pseudomonas syringae* and *Erwinia*

chrysanthemi," Alan Collmer, Dept. of Botany, University of Maryland, Oct. 26, 10:10 a.m., 404 Plant Science.

"Ac Transposition in Tobacco," Barbara Baker, USDA Plant Genetic Engineering Centre, Albany, California, Oct. 27, 4:15 p.m., 101 Bradford Hall.

"Role of Antibiotic Production by *Erwinia Herbicola* Strain Eh252 in the control of fire-blight," Joel Vanneste, Oct. 27, 4:30-5:30 p.m., 404 Plant Science Building.

Psychology

"Culture and Moral Development," Richard A. Shewder, Committee on Human Development, University of Chicago, Oct. 23, 3:30 p.m., 202 Uris Hall.

Sociology

"Patterns of Mortality in the U.S. Semiconductor Industry," John Freeman, Oct. 26, 12:20 p.m., 302 Uris Hall.

Southeast Asia Program

"Reconciliations: The USIRP Delegation to Vietnam," Pat Pelley, SEAP grad student, history, Oct. 29, 12:20 p.m., 102 West Ave. Ext..

Statistics

"Objective Bayesian Analysis," James O. Berger, Statistics Dept., Purdue University, Oct. 28, 3:30 p.m., 100 Caldwell Hall.

Textiles and Apparel

"Pesticides in Soil," Amy Gamerdinger, Oct. 27, 12:20 p.m., 317 Martha Van Rensselaer.

Vegetable Crops and Pomology

"Horticulture in New Zealand," Dan Drost, grad student, Oct. 22, 4:30 p.m., 404 Plant Science Bldg.

Western Societies

"Mafia and Anti-Mafia: The Struggle for Culture Hegemony and Sicily," Jane Schneider, Dept. of Anthropology, CUNY, Oct. 26, 4:30 p.m., 153 Uris Hall.

Prince of Thailand to speak on monarchy

Prince Tongnoi Tongyai, deputy principal private secretary to the King of Thailand and former delegate to the United Nations, will speak on the role of the monarchy in maintaining his country's national unity at the university's Southeast Asia Center, 102 West Ave. Extension at 12:15 p.m. today.

Tongnoi also will discuss the personality and activities of King Bhumiphol Adulyadej, who next year will become Thailand's longest reigning monarch, with 42 years on the throne. Tongnoi is visiting the United States under the Fulbright Program to commemorate the king's 60th birthday.

Thailand, a pro-Western constitutional monarchy, is the only country in Southeast Asia that was never taken over by a European power. Its 19th century kings signed treaties with Britain and France, then the dominant colonial powers in that part of the world.

In addition to being deputy principal private secretary to the king, Tongnoi, 51, also is acting secretary-general of the Privy Council, which is composed of eminent senior advisors to the king. He served in the Thai foreign ministry from 1963 to 1966 and as political officer and alternate delegate for Thailand at the United Nations from 1965 to 1970.

At Oxford University, he earned a B.A. with honors and an M.A., both in modern languages.

Tongnoi, accompanied by his wife, Princess Khun Busakorn, is visiting Cornell from Oct. 21-23. Benedict R. Anderson, director of the Southeast Asia Program, said the prince is expected to visit Olin Library to see the Thai-language holdings in the John M. Echols Collection on Southeast Asia and meet with faculty and graduate students.

Eleven Thai and eight American graduate students are working in Thai studies. Undergraduate students from prominent Thai families started attending Cornell more than 50 years ago, Anderson said.

— Albert E. Kaff

MISC

Asian American Coalition

Asian American faculty, staff and students are invited to a tea on Oct. 23 from 4-6 p.m. in the Willard Straight Hall Memorial Room.

Christian Science Monitor

The Christian Science Monitor Resource Files may be obtained, free of charge, in the Willard Straight Hall lobby Oct. 28 and 29, 10 a.m. to 4 p.m. The files contain up-to-the-minute newspaper articles on over 150 topics useful for writing papers, preparing speeches, studying for exams, teaching, etc.

Cornell Figure Skating Club

Annual Open House to be held Oct. 25, 5-7:30 p.m., Lynah Rink. The club meets four times a week and holds sessions in patch, dance and freestyle. Lessons begin Nov. 1. Beginners welcome. For more information call 272-5936 in the evenings.

Hebrew Speaking Club

Hebrew Speaking Club meets Tuesdays, 8:30 p.m., G-34 Anabel Taylor.

Shotokan Karate Club

Shotokan Karate Club welcomes new members, beginners and advanced. The club meets Monday through Friday in front of Barton Hall, 5:30 to 6:45 p.m. For information call Scott, 272-2512, evenings.

Writing Workshop

Writing workshop walk in-service, free tutorial instruction in writing, Monday-Thursday, 3:30-5:30 p.m. and 7-10 p.m., 174 Rockefeller Hall; Sunday, 2-8 p.m., 174 Rockefeller Hall; Sunday-Thursday, 10-midnight, 340 Goldwin Smith; Sunday-Thursday, 7-10 p.m., McFaddin Hall-Computer Room; and Sunday-Thursday, 7-10 p.m., Clara Dickson Room-Computer Room.

SPORTS

Friday-Saturday, 10/23-10/24

Women's Volleyball at Colgate Invitational, 6 p.m.

Friday, 10/23

Ltwt. Football, at Navy, 4 p.m.

Women's Cross Country, Cornell Invitational, 4 p.m.

Men's Cross Country, Cornell Invitational, 5 p.m.

Saturday, 10/24

Freshman Football, Dartmouth, 9:30 a.m.

Women's Varsity Field Hockey, Dartmouth, 10 a.m.

Women's Varsity Soccer, Dartmouth, 11 a.m.

Varsity Football, Dartmouth, 1 p.m.

Men's Varsity Soccer, Dartmouth, 7:30 p.m.

Saturday-Sunday, 10/24-10/25

Women's Tennis, EITT Tournament at Trenton

Monday, 10/26

Women's Jr. Varsity Soccer, Cortland, 3 p.m.

Men's Jr. Varsity Football, Milford Academy, 4:30 p.m.

Wednesday, 10/28

Women's Varsity Field Hockey, Colgate, 7:30 p.m.

Thursday, 10/29

Men's Jr. Varsity Soccer, at Cortland, 7 p.m.

Last week's scores

[X-Y Overall record to date]

Men's Varsity Soccer [2-8], Ivy League [0-4]

Lafayette 3, Cornell 2
Brown 4, Cornell 1

Women's Varsity Soccer [8-2-1], Ivy League [3-0-1]

Cornell 1, Rochester 0
Cornell 1, Brown 0

Women's Volleyball [14-7], Ivy League [2-0]

Cornell 3, Harvard 1
Cornell 3, Brown 2
Cornell 3, Rochester 2

Women's Varsity Field Hockey [6-5-1], Ivy League [3-1]

Cornell 0, Cortland 0
Cornell 3, Hartwick 2
Cornell 1, Brown 0

Varsity Football [3-2], Ivy League [2-1]

Brown 23, Cornell 15

Ltwt. Football [4-0], [2 - 0 in ELFL0]

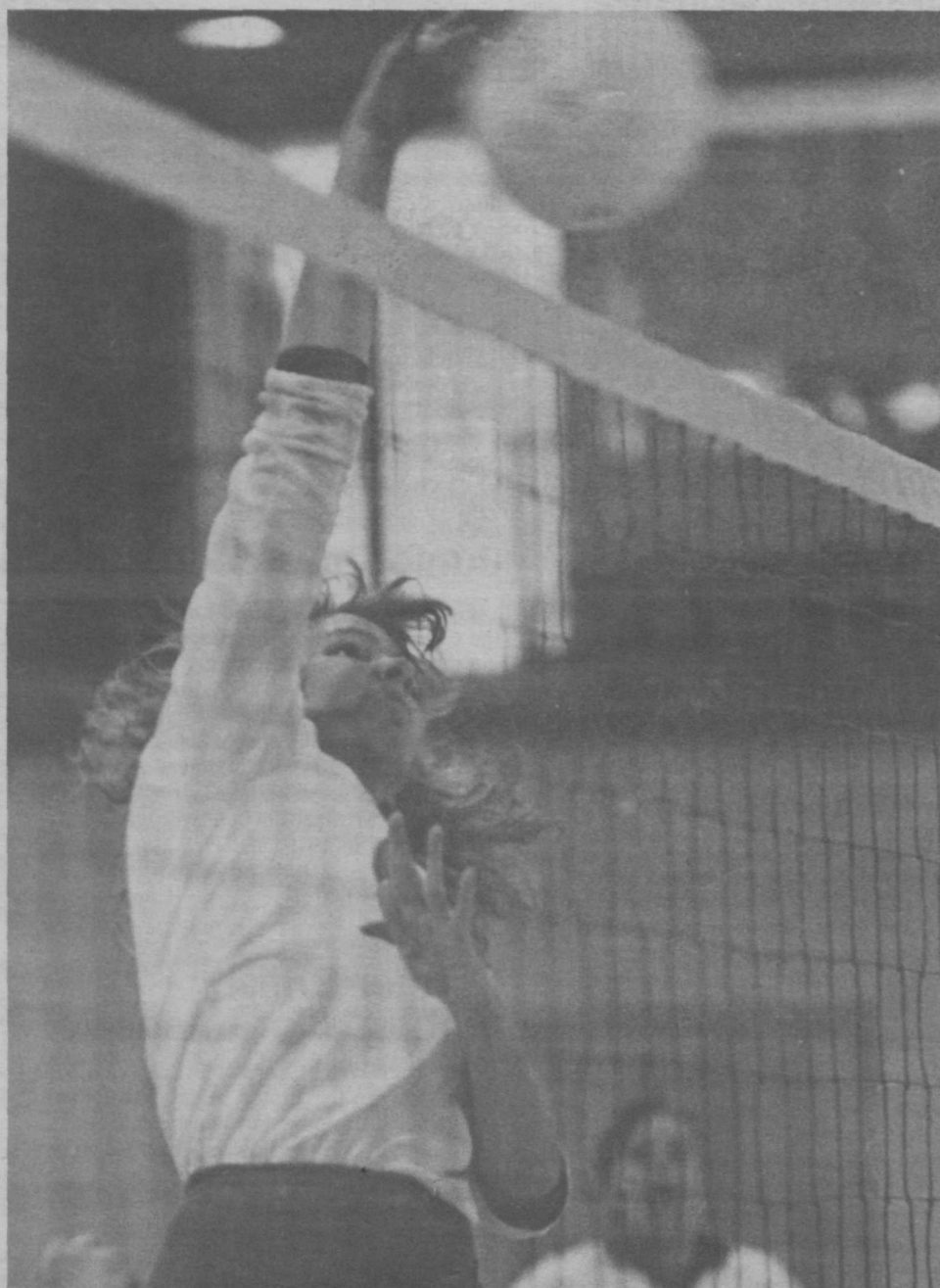
Cornell 21, Princeton 14

Women's Tennis [4-0]

Cornell 9, Cortland 0

Freshman Football [1-1]

Princeton 27, Cornell 10



Marcy Dubroff

Barbara Dragan puts one past a Bruin defender in the volleyball game against Brown last Saturday. Cornell won the match 3-2.

Grand opening planned for Barton Hall

Barton Hall's newly installed floor will be made available for all activities, including basketball and volleyball, beginning Oct. 29. At present, the hall is open only for jogging and ROTC use from 6 a.m. to 4 p.m. daily.

The floor will be closed to prepare for Trustee Council Weekend from Oct. 21-25.

All floor users — students, faculty and staff and their guests — must enter the building from the east end (Teagle Hall side) and show proper identification. Teagle-issued uniforms will be accepted as identification.

A daily and weekly schedule will be posted at the entrance of Barton Hall.

Theory Center *Continued from page 1*

the move will outweigh the costs. Burness also said that the controversy over the building had prompted the university to consider improvements to gorge trails and increased efforts to improve communications as part of a revitalized campus planning program.

"The Grumman building is a serviceable building, but is . . . inadequate for the kinds of engineering research that we are now being asked to do by the federal government and by the state and by the corporate sector," Burness asserted.

Plasma Studies lab to be moved

Engineering College Dean William Street said in a later interview that "the research of five or more faculty members and 10 to 12 grad students will be severely disrupted. Among the most difficult problems would be to move the large, complex and very heavy experimental equipment of the Laboratory of Plasma Studies. This includes several experimental devices that have been painstakingly assembled over a long period

of time, and which now must be disassembled, moved, reassembled and recalibrated.

"This move will cause the loss of many months of time, will possibly delay the completion of Ph.D. studies by some students, and represents a very serious loss of time and potential loss of funding for these faculty and graduate students.

"The College of Engineering will do everything it can to provide equivalent alternate space and to make the transition as smooth as possible," Streett added.

He also emphasized that "the possible solution of taking down Grumman Hall and connecting the new engineering/Theory Center building directly to Upson Hall is an excellent long-term solution that will serve the needs of the engineering college well in the future.

"The present plans provide for the replacement of the space lost in Grumman by modern laboratory space in the lower levels of the new building. This space will be the type that is now at a premium in the college — designed and equipped for large

experimental devices and for heavy equipment."

In another interview, Francis Moon, professor and director of the School of Mechanical and Aerospace Engineering, whose faculty also occupies Grumman, said:

"I think the professors who have laboratories in Grumman are a little apprehensive about having to move their labs, but I think they understand that it will benefit the School of Mechanical and Aerospace Engineering and the College of Engineering in the long run.

"They hope the College of Engineering and the university will provide sufficient resources to move them into suitable lab space with a minimum of disruption," Moon continued. "Overall, the faculty believe that the new plan is a much better plan than the original."

Gorge trails to be repaired

According to Burness, the controversy also has prompted the university to commit itself to repairing the gorge trails, for which funds already exist. These repairs would be overseen by Cornell Plantations.

"One of the things I like about the compromise [plan] is that the university seems to be committing itself in a way that it hasn't for a long time to doing something for the gorge," Ithaca resident Betsy Darlington, a leader in opposing the earlier plan, said at the news conference.

Earlier in the press conference, Darlington joined Ithaca Mayor John Gutenberger and the city's planning and development board chairman Susan Blumenthal in endorsing the new plan.

According to Burness, the Cornell administration also plans to ask the Board of Trustees to approve a resolution stating that, "in this particular area of campus, there would be no intention to plan any buildings that are larger than the Theory Center.

"Partly as a result of the controversy, the university is instituting a campus planning process that is much more analytical and methodical and that emphasizes earlier communication of construction plans," he added.

— Dennis Meredith

Bridge *Continued from page 1*

Cornell, which owns the bridge, spent about \$1 million for repairs that began in mid-April. The project was completed about three weeks ahead of schedule. Maintaining the architectural spirit of the bridge, which was designated an historical civil engineering landmark in 1981 by the local American Society of Civil Engineers, is one reason why the project took so long, Stewart said. This necessitated reconstructing the bridge stone by stone.

Ithaca Transit bus routes that were altered by the reconstruction will return to normal on the afternoon of Oct. 26.

CU Transit's Blue Light and B-Lot College-town buses will resume entering College-town via the bridge starting in the morning of Oct. 26 for the B-Lot College-town run and in that evening for the Blue Light runs. The return of the College-town stop will not change the time schedule of the existing runs or any of the current stops of these routes.



The Coleman Brothers, who will perform on Oct. 23 at 8 p.m. in Kaufmann auditorium.

Cornell CHRONICLE

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