

Cornell CHRONICLE

Volume 20 Number 12 November 10, 1988



Provost orders 'virus' investigation

Provost Robert Barker has ordered an investigation into the apparent use of Cornell computers to construct a "virus" that infiltrated computers nationwide last week.

The virus, which caused thousands of computers to malfunction and slowed transmissions on computer networks, has been linked by press reports to a first-year Cornell computer science graduate student, Robert T. Morris.

When Cornell officials examined computer files on Morris' account, they discovered lists of passwords dating from late October that were substantially similar to lists contained in the virus.

On Monday, Barker wrote a letter to M. Stuart Lynn, vice president for information technologies, asking him to head an investigative commission.

So far, the investigation "has determined that no one at Cornell in a position of responsibility authorized or had knowledge of the project that led to the creation of the virus," Barker wrote.

The university will release the results of the investigation when it is complete, "subject to appropriate legal requirements," the provost continued, and he directed that further details of the investigation not be discussed publicly until that release.

According to Lynn, his inquiry will be aided by faculty from the Department of Computer Science and from outside the department, as well as by a representative from the Office of the University Counsel.

The group will gather all evidence on Morris' potential involvement and whether other members of the Cornell community

Continued on page 12



Jill Peltzman

Dean Krafft, manager of computing facilities for the computer science department, examines computer tapes containing past files from the department's computers. University investigators are examining such tapes to understand the history of the computer virus that was apparently constructed at Cornell.

Daniel Schorr to assess the Reagan years

Veteran reporter-commentator Daniel Schorr will make a post-Election Day assessment of the Reagan years when he delivers three Nordlander Lectures here Nov. 14 through 16.

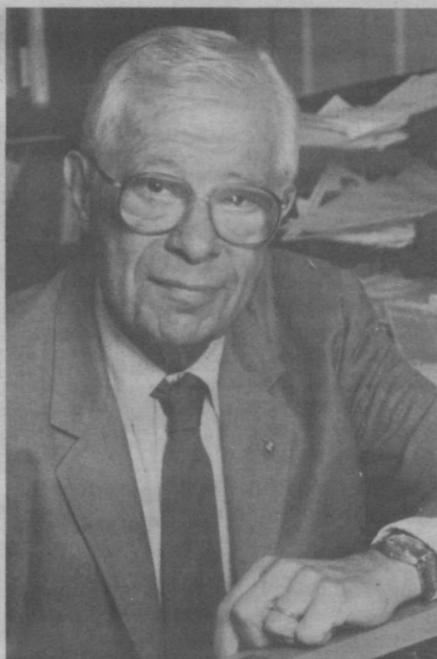
Schorr, senior news analyst for National Public Radio, will speak on the general theme of "The Reagan Years: A Retrospective" as the Nordlander visiting scholar. The schedule for the lectures is:

- Nov. 14, 7:30 p.m., Bailey Hall, "The Presidency in the Media Age."
- Nov. 15, 4:30 p.m., Uris Auditorium, a lecture on the Reagan presidency and domestic affairs.
- Nov. 16, 4:30 p.m., Uris Auditorium, a lecture on the Reagan presidency and foreign affairs.

The lecture series memorializes the work of the late J. Eric Nordlander, a 1956 graduate of Cornell and advocate of social responsibility who became dean of the Cleveland State University College of Arts and Sciences.

With more than 50 years in the news business, Schorr is one of the last fully active journalists from the legendary Edward R. Murrow team at CBS.

Before joining CBS News as a diplomatic correspondent and covering the Senate McCarthy hearings in 1953, Schorr reported on Western Europe for the Christian



Paula Dart

Daniel Schorr

Science Monitor newspaper and The New York Times.

He opened the CBS bureau in Moscow and was excluded from Russia for breaking censorship regulations, then served as CBS bureau chief for Germany and Eastern Europe during the Berlin Wall crisis.

Schorr returned to the United States in 1966 to cover civil rights, urban and environmental problems, and health and economics.

Continued on page 12

Alumni, admissions center envisioned for Beebe Lake

University officials are in the early stage of developing conceptual designs for a new alumni and admissions center overlooking Beebe Lake.

Preliminary discussions of the project suggest several sites, including the hillside where Entrepot, formerly Noyes Lodge, is situated. The hill overlooks Beebe Lake and the falls that spill into Fall Creek Gorge. The gorge is spanned by a footbridge between the old hydraulics laboratory on the south and Entrepot on the north.

Final design, budget and target dates for the proposed center have not been developed, according to David I. Stewart, direc-

tor of community relations.

Whatever preliminary conceptual plan is pursued, Entrepot and the nearby Alumni House probably would be removed, and views of the lake, gorge and falls would be enhanced by public paths, decks and an overlook, Stewart said.

Preliminary design concepts also provide an opportunity to restore or improve the appearance of a number of man-made structures on the site — the dam, the 90-year-old hydraulics laboratory, the chilled water plant and the existing footbridge. Plans will include parking for the project.

Continued on page 12

Cornell to propose selling land in Cayuga Heights to developer

Cornell soon will present Village of Cayuga Heights officials with plans for a residential development that would include 242 houses and apartments on the university's 106-acre Savage Farm property off North Triphammer Road between Hanshaw Road and Sheraton Drive.

John E. Majeroni, Cornell's director of real estate, said the plan calls for 59 one-family houses at the outer edges of the property; 97 town houses in clusters of three or

four units; and 86 retirement units, including 36 one-story town houses and 50 apartments inside a community building.

He explained that the village's Planning Board must approve the proposal only because current zoning does not permit putting one- or two-family houses and apartments in the same development.

Majeroni said Cornell would submit its plan to the village within a few weeks and

Continued on page 12

Notables

Frederick B. Hutt, a professor emeritus of animal genetics, is among the first 25 individuals elected to the International Poultry Hall of Fame. The World Poultry Science Association announced establishment of the hall of fame at the World Poultry Congress and Exhibition in Nagoya, Japan, in September. In the future, no more than five persons will be elected to the hall of fame every fourth year.

Hutt, who has continued his research since his retirement in 1965, is recognized worldwide for outstanding work on heredity in domestic animals, particularly fowl; genetic resistance to disease; lethal genes; hereditary defects; and genetic differences in nutritional requirements.

One of Hutt's graduate students, Robb S. Gowe, who received his doctorate from Cornell in 1949, was also among the first 25 persons elected to the hall of fame. Gowe is now director of research at Shaver Poultry Breeding Farms Ltd. in Ontario.

Todd W. Gusek, a graduate student in food science, received one of two awards presented this year by the American Chemical Society for excellence in graduate research in agricultural or food chemistry. He was cited for his discovery of a highly potent enzyme that can make laundry detergents more powerful stain removers.

The society presented Gusek a \$750 cash prize and paid for expenses to attend its 196th national meeting held in Los Angeles Sept. 25 through 30. He presented a paper on his research.

Correction

A story in the Nov. 3 Chronicle about a task force that will examine teaching and research efforts on the social implications of science and technology incorrectly identified the members of the task force.

The eight-member panel includes President Emeritus Dale R. Corson, a physicist and former dean of the College of Engineering; Geoffrey V. Chester, a physicist and dean of the College of Arts and Sciences; and Professors Barbara Cooper (physics), Joanne Fortune (biological sciences and women's studies), Carl Ginet (philosophy), Jack Muckstadt (operations research and industrial engineering), Robin M. Williams Jr. (sociology) and Milton Zaitlin (plant pathology and associate director of the Biotechnology Program).

As part of its discussions, the task force will discuss the Program on Science, Technology and Society; the Peace Studies Program; the Biology and Society Program; the Program on Ethics and Public Life; and the Center for Environmental Research. The directors of these programs, however, are not members of the task force.

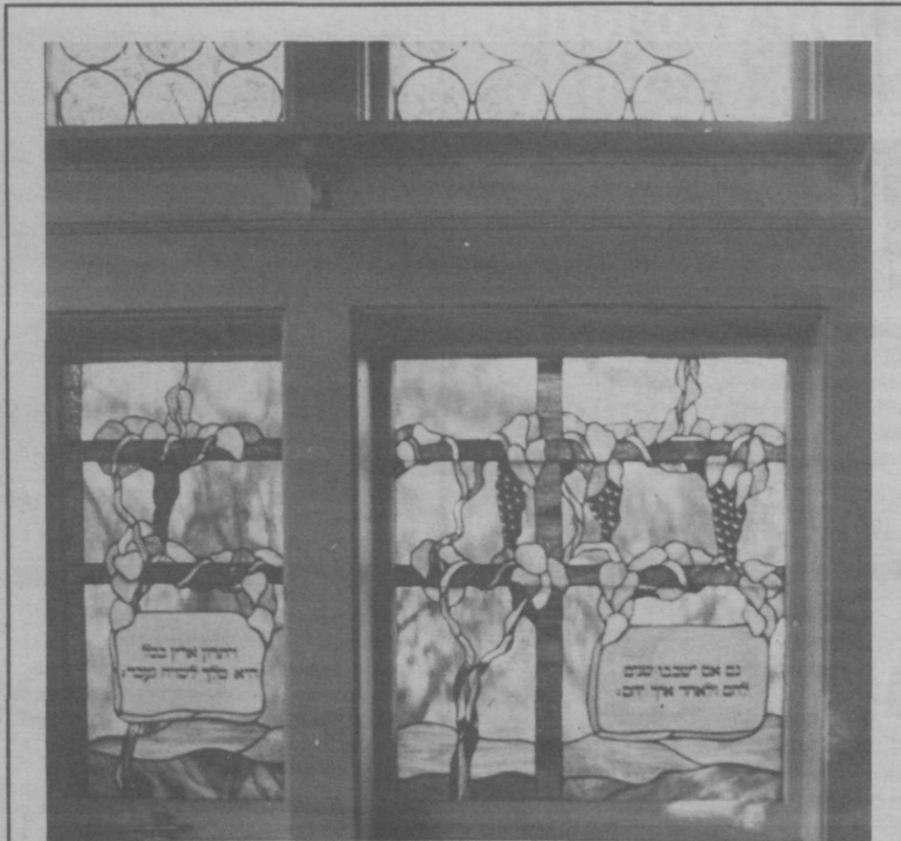
Cornell Chronicle

EDITOR: Carole Stone
GRAPHICS: Cindy Thiel
CIRCULATION: Joanne Hanavan

Published 40 times a year, Cornell Chronicle is distributed free of charge to Cornell University faculty, students and staff by the University News Service. Mail subscriptions, \$25 per year; two-year subscriptions are \$45. Make checks payable to Cornell Chronicle and send to Village Green, 840 Hanshaw Road, Ithaca, N.Y. 14850. Telephone (607) 255-4206. Second-Class Postage Rates paid at Ithaca, N.Y.

POSTMASTER: Send address changes to the Cornell Chronicle (ISSN 0747-4628), Cornell University, 840 Hanshaw Road, Ithaca, N.Y. 14850.

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.



Jill Peltzman

CENTER DEDICATION — A synagogue window in the new Center for Jewish Living at 106 West Avenue Ext. Dedication ceremonies for the center's 250-seat kosher dining hall, renovated Young Israel residences and chapel were held on Oct. 30. Dignitaries included Ambassador Kenneth L. Adelman, former director of the U.S. Arms and Disarmament Agency; Neal Sher, head of the Office of Special Investigations for the Department of Justice; and Zev Maghen, senior information officer at the Israeli embassy.

Former NOW leader to speak Nov. 16 on women and power

Eleanor Smeal, former national president of the National Organization for Women, will speak on "Women and Power on Campus, in Politics and at Work" on Nov. 16 at noon in the Alice Statler Auditorium of Statler Hall.

She will present the same lecture that afternoon at 4:30 p.m. in room 110 of Ives Hall and also speak to a class in the School of Industrial and Labor Relations on writing in industrial and labor relations. Smeal founded and publishes a bimonthly newsletter in Washington dealing with women's issues.

Smeal served as president of NOW from 1977 to 1982 and from 1985 to 1987. She currently is national advisory chair of NOW and president of the Fund for the Feminist Majority, which she founded.

The fund is sponsoring a nationwide campaign urging women to run for political offices in local and state governments and



Eleanor Smeal

the federal government.

Smeal's visit is being sponsored by a number of Cornell and Ithaca community organizations.

Six vacancies filled on Free Speech Advisory Committee

The revised membership of the 13-member Advisory Committee on Responsible Speech and Expression under the Campus Code of Conduct is now in place with the replacement of six former members whose terms have expired.

- Professor Walter R. Lynn fills the dean of faculty position on the committee.

- Willard Straight Hall Director Cleo Bash is now on the committee as chair of the University Assembly.

- Cassandra Pagliaro and Lane Blumenfeld are the new Student Assembly appointees to the committee. Blumenfeld is an alternate for the two regular Student Assembly positions.

- The two new faculty-elected members are Professor Jean Robinson, associate dean of the College of Human Ecology, and Cushing Strout, Ernest I. White Professor of American Studies and Humane Letters.

The other seven incumbent members of the committee are its chairman, Professor John Barcelo III, Provost Emeritus W. Keith Kennedy and professors Howard Evans and Ronald Ehrenberg, who are the four presidential appointees; Employee Assembly appointees William Staffeld and Alan Venooker; and Student Assembly appointee Rene Robert.

Obituary

Herbert F. Newhall

Herbert F. Newhall, a member of the Cornell faculty from 1942 until 1981 when he retired as an emeritus professor of physics, died on Nov. 6 at Robert Packer Hospital after a long illness. He was 72.

A funeral service was scheduled for 11:30 a.m. today at the Wagner Funeral Home in downtown Ithaca.

Newhall, whose specialty was teaching large introductory physics courses, was the author of a textbook, "Introductory Analytical Physics." After his retirement, he continued to be involved with teaching at Cornell up to a year ago.

Newhall was born in Santa Fe, N.M., and he received a B.A. degree from Colorado College in 1937 and a Ph.D. from Cornell in 1942. He was an instructor in the Navy V12 Program at Cornell from 1942 until 1945 when he was appointed assistant professor. He was promoted to associate professor in 1948 and to professor of physics in 1955. He also was named a professor of engineering physics in 1956. His research involved electronics during World War II.

Survivors include two nephews and a niece. Donations by be made to the Herbert F. Newhall Memorial Fund in care of the Physics Department, Clark Hall.

Briefs

■ **Museum tour:** The Herbert F. Johnson Museum of Art is sponsoring a bus trip to New York City Dec. 9 through 11 for a cultural tour, including special art shows at the Metropolitan Museum of Art and the Modern Museum of Art. For details call the museum's Community Relations Department at 255-6464. Arrangements must be made no later than Nov. 14.

■ **Science workshop:** Fifty-five girls from the sixth, seventh and eighth grades at local schools will take part in a day-long workshop in Rockefeller Hall on Nov. 12 aimed at stimulating their interest in careers in math, science and engineering. The conference is being conducted by the Women in Math, Science, and Engineering Task Force, a group of Cornell graduate students, faculty and staff affiliated nationally with the Math/Science Network. The conference is being funded by the College of Engineering, College of Agriculture and Life Sciences, and College of Arts and Sciences.

■ **Hiring freeze:** The annual university hiring freeze will be Dec. 1 through Jan. 2. Any exceptions to the hiring freeze must be put in writing to Manager of Compensation Anita Harris, Office of Human Resources, 11 Day Hall.

■ **Combustion proposals:** The New York State Solid Waste Combustion Institute is seeking the first in a series of annual research proposals, particularly in the area of combustion technologies, air emissions and residuals management. Guidelines are available from Carin Rundle at the Waste Management Institute, Center for Environmental Research, 468 Hollister Hall. The phone number is 255-5940. Completed proposals must be submitted by Jan. 13, 1989.

■ **Computer orientation:** An orientation program for faculty and research support staff covering services offered by Cornell Information Technologies for professional and personal use of computers is scheduled for Nov. 18 from 3 to 4:30 p.m. in Room 100 of Caldwell Hall.

■ **Breakfast with Rhodes:** A limited number of places are available for students to sign up for breakfast with President Frank H.T. Rhodes.

His office's telephone number is 255-5201. The breakfasts are held from 7:30 to 8:30 a.m. in the Elmhirst Room of Willard Straight Hall at various times during the year. Reservations are made on a first-come, first-served basis.

■ **Meals with Morley:** Employees may sign up for breakfast or lunch with Senior Vice President James E. Morley Jr. by calling the Office of Human Resources at 255-3621. The meals will be held each month during the academic year and will begin on Nov. 18 with a 7:30 a.m. breakfast at the Elmhirst Room in Willard Straight Hall. Other dates and places include a Dec. 16 lunch at the ILR Conference Center and a Jan. 24 breakfast at Hughes Dining Hall in the Law School. Other dates to come.

Meese to speak

Former U.S. Attorney General Edwin Meese will speak at Bailey Hall on Nov. 15 at 8:30 p.m. on the topic "The Reagan Legacy and Beyond."

Meese served as attorney general from February 1985 to August of this year, resigning after conclusion of an investigation into charges of unethical activities which resulted in no criminal charges against him.

He has agreed to answer questions from the audience.

Meese is coming to campus under the auspices of the student-run Program Board of the Department of Unions and Activities. Tickets are on sale at the Willard Straight Hall Ticket Office at \$4 (\$3 for students).

Thanksgiving Day

In observance of the Thanksgiving holiday, the Cornell Chronicle will not publish on Nov. 24.

And due to the number of listings each week in the Calendar, the Chronicle has begun listing events scheduled on Thursdays only once, instead of listing them both on the day they take place and a week before.

Robot, dignitaries break ground for Theory Center

With a flourish of its golden shovel, a 700-pound robot triggered by President Frank H.T. Rhodes scooped up a spadeful of sand last Thursday to mark the beginning of construction for the College of Engineering/Theory Center Building. The \$30 million building will be completed in January 1990 at the south end of campus overlooking Cascadilla Gorge.

In another ceremony earlier that day, Erich Bloch, director of the National Science Foundation issued a command to bring Cornell's second supercomputer on line for users around the country.

The 250 attendees watched as a video-projected graph depicting the computer's use surged upward, marking a flood of scientific research calculations on the computer. With the second IBM 3090-600E, Cornell now has two six-processor supercomputers, which engineers plan eventually to link to form a single 12-processor machine.

The afternoon's events also included tours of the supercomputer facilities and an unveiling of realistic computer images of the new building by Professor Donald Greenberg, director of the Program of Computer Graphics.

In his talk, Bloch emphasized the importance of parallel computing, a specialty of the Theory Center, to the future of computing.

"It's in this area that the next major gains in supercomputing are most likely to occur. The 12-processor environment that will be created by the addition of the new supercomputer will make it possible to proceed to larger and more complex research problems," Bloch said.

He also told the audience, "The achievements of the center and the potential represented by the acquisition of these additional processors are a showcase of cooperation among industry, academia, the state and the federal government. The importance of the center's work is also affirmed by the support it receives from the State of New York."

International Business Machines Corp. Vice Chairman Jack Kuehler praised the Theory Center's industrial outreach program, the Corporate Research Institute, emphasizing its importance to state industry.

"The industrial members, whether they be IBM, or Xerox or Corning, are able to improve their competitiveness as major companies in New York State and as a result become more competitive and more successful and clearly provide more jobs for the State of New York," Kuehler said.

Lieutenant Governor Stan Lundine said that the Theory Center "provides the state and researchers elsewhere with a competitive edge."

"It's projects like this one that will allow New York to remain a leader in the sciences and a leader in the economy," he said, asserting that the Cornell supercomputers "act as a magnet to lure new scientists" to the state.

At the groundbreaking ceremony, numerous university, state and local officials pressed the button activating the General Electric Co. robot to excavate a spadeful of sand and dump it into a bright red wheelbarrow. Presiding over the ceremony was College of Engineering Dean William Streett. Among the groundbreakers were Andrea Tinucci, assistant vice president of the New York State Urban Development Corporation (UDC); Ithaca Mayor John Guttenberger; Representative Sherwood Boehlert (R-N.Y.); and local environmentalist Betsy Darlington.

The seven-story College of Engineering/Theory Center Building will house the Theory Center and the Program of Computer Graphics in its upper four floors. The bottom three floors and basement will provide space for the College of Engineering's Department of Computer Science, the School of Operations Research and Industrial Engineering, the School of Mechanical and Aerospace Engineering and the Cornell Manufacturing Engineering and Productivity Program.

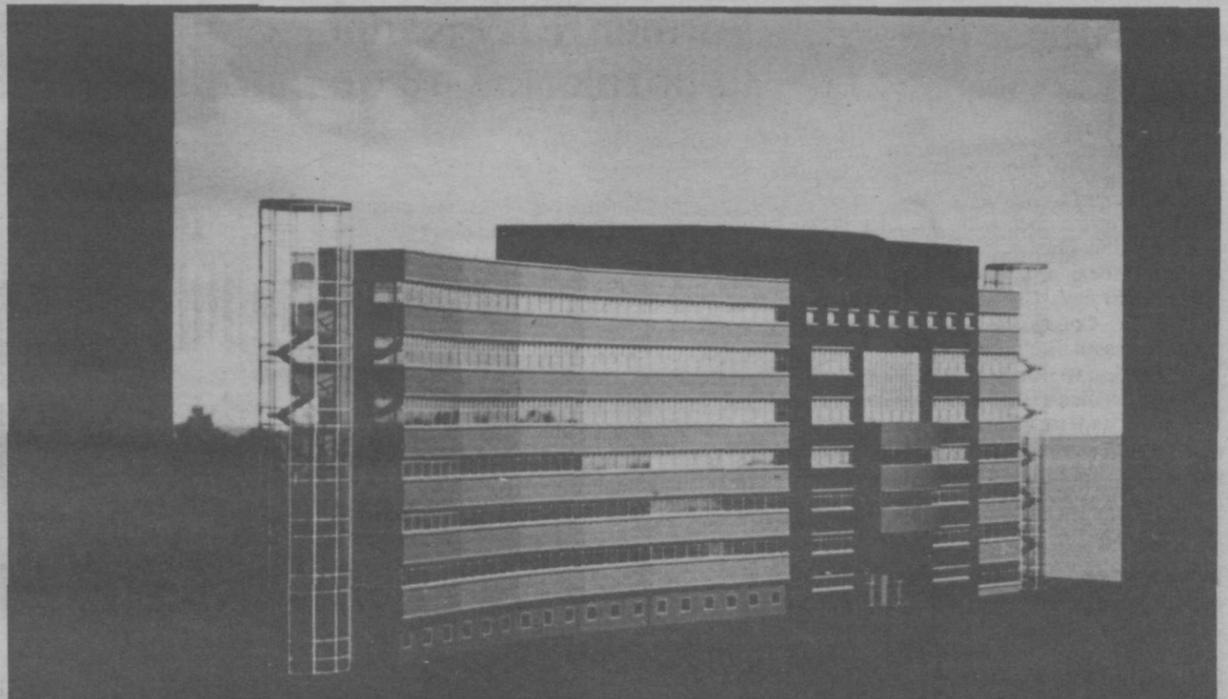
The building is partially funded by a \$5 million grant and a \$5 million loan from the UDC and by private funds.

—Dennis Meredith



Jill Peltzman

A General Electric Co. robot drops a shovelful of sand into a wheelbarrow during the Nov. 3 groundbreaking for the College of Engineering/Theory Center Building. The robot has been used in engineering research and will make its home in the center.



A computer-simulated image of the Engineering/Theory Center building unveiled by Donald Greenberg, director of the Program of Computer Graphics, at the Nov. 3 groundbreaking celebration. The complex building was modeled by Keith Howie and the rendering was done by Ben Trumbore. The realistic image was generated using a "ray-tracing" technique.

Cults seen to be strong 10 years after Jonestown

Ten years after some 900 people died at the Rev. Jim Jones' People's Temple in Guyana, more cults are reaching more people with increasingly subtle and sophisticated techniques, said the president of a national anti-cult group.

"You don't have Hare Krishnas dancing in yellow saffron robes and the Moonies holding rallies in Yankee Stadium anymore. Now, cults look just like many legitimate Christian evangelical organizations," said Ronald N. Loomis, president of the Cult Awareness Network and director of student unions and activities at Cornell.

"The profile of a typical cult recruit is the profile of a typical Cornell University student," Loomis said. "They come from intact families, they are brighter than average, they're caring and committed people who become vulnerable to cult manipulation when they are trying to recover from a traumatic experience such as a death or end of a relationship."

In cautioning people, especially young people, to be wary of others who show a sudden and intense interest in them, Loomis cited the case of a 1988 Cornell graduate who nearly quit school before his senior year after only a three-week encounter with a Boston cult.

"People should look at the impact of group involvement in the individual," Loomis advised. "Members of legitimate religious groups tend to be positive and happy and have warm relationships. People in cults cut themselves off from family and friends, immerse themselves in the group's activities and become arrogant about their group's relationship to God."

He suggested that young people who are approached by someone who expresses the same likes and dislikes as them and who invites them to share a meal or participate in a Bible study or discussion group should decline until they consult with others about the group. This is especially true if young people are approached during a period of confusion, frustration or depression -- times when they are most susceptible to the "simplistic answers" of cults, Loomis added.

There are an estimated 2,500 cults in the United States, Loomis said. He receives about two calls a week (compared to a few calls a semester 10 years ago) from people concerned about friends who are falling under the influence of cults. At Cornell, about three cults have 30 to 50 students as members, he estimated.

Just last month, in Portland, Ore., four people were charged with the beating death

of the 8-year-old daughter of the founder of a controversial religious group called the Ecclesia Athletic Association. According to newspaper reports, the group was founded to help black inner-city youths train for the Olympics and to avoid crime and drugs, but parents were asked to sign a "Vow of Poverty Application" that gave the group's leader total control over their lives.

Loomis, who became director of student activities at Cornell in 1970, has been holding cult-awareness workshops at Cornell and elsewhere over the past eight years. He is serving his fourth one-year term as president of the Cult Awareness Network, based in Chicago, and he has helped some 50 families who had a relative in a cult.

It was 10 years ago, on Nov. 18, 1978, that U.S. Rep. Leo J. Ryan and several others were killed by the followers of Jim Jones, more than 900 of whom then died from drinking a poisoned fruit drink.

Ryan's daughter, Patricia Ryan, entertainer Steve Allen and clergy from a number of religious organizations are members of the advisory board of the Cult Awareness Network, which describes itself as an educational organization "dedicated to promoting public awareness of the harmful effects of mind control."

Opponents of Loomis' activities have branded his work as "anti-religious," "lawless" and "hateful." But Loomis said that he is not concerned with the religious orientation of any group, only with a group's use of manipulation and deception to attract members.

Loomis is helping lead an effort in which the Cult Awareness Network is working with the American Family Foundation, a group comprised primarily of clinicians and scholars that publishes the *Cultic Studies Journal*, to launch a national program that will help teachers and clergy hold their own cult-awareness workshops.

At Cornell, Loomis enforces regulations that permit student groups, including those with cult affiliations, to register as campus organizations and to use campus facilities. At the same time, he works to educate students to be wary of cult groups.

"Cults typically begin as something else, even legitimate religious organizations in some cases, such as the People's Temple did," Loomis said. "Then these charismatic leaders get so caught up in being idolized and revered that they kind of flip out. They begin to see how far they can go in manipulating people."

—Mark Eyerly

Cornell will establish nation's first teaching hotel

For the first time in its history, the School of Hotel Administration is assigning faculty members to serve concurrently as department managers for the Statler Hotel.

Hotel School Dean John J. Clark Jr. said he believes the assignments for the new Statler Hotel and J.W. Marriott Executive Education Center "will enrich the experiences of our faculty, staff and guests." The assignments also will make the Statler the nation's first officially designated teaching hotel when it opens next year.

Clark explained that the 150-room facility will operate much the same way "as do the teaching hospitals of medical and veterinary schools, where faculty members function as heads of hospital departments."

Managers of most of the nation's university hotels have no teaching responsibilities,

a spokesman for the Hotel School said.

Members of the school faculty appointed to management positions in the hotel are:

- Hans Weishaupt, managing director of the hotel.
- David D'Aprix, director of food and beverage services.
- Neal Geller, director of accounting and finance.

Weishaupt, a Swiss hotelier with 25 years of executive experience with Hilton International, became managing director of the campus hotel in August. He also received a faculty appointment as the school's first Robert A. Beck Chair of Applied Hotel Management.

D'Aprix, a lecturer, will oversee all food and beverage operations in the nine-story hotel that replaced the smaller Statler Inn.

Geller, a finance professor who spent five years in corporate finance and is conducting research in financial management and hospitality industry accounting, will serve as the hotel's chief financial officer.

The teaching hotel designation "means that the new Statler will be run not only as a good hotel for guests but also will provide the best training environment for the faculty and the student body," said Weishaupt, a 1964 graduate of the school.

Executives of two large hotel organizations have endorsed the concept of a teaching hotel.

"The main purpose of a hotel school is to teach," Carl Mottek, president of Hilton Hotels, said in an interview after inspecting the Cornell facilities in October.

"Using faculty in the hotel who can teach

not only theory but actual management will be an enriching experience for the students. The Cornell school has a blue-chip reputation."

According to Jon Canas, president and chief executive officer of Omni Hotels, the evolution of the Hotel School's academic programs during the past four years "already answered the industry's need for individuals who are prepared for the challenges of today's business environment.

"Now the integration of experienced faculty members into the daily operation of the Statler Hotel will further enhance the students' training and learning and, as a direct result, will increase the students' ability to contribute to the industry upon graduation," he said.

—Albert E. Kaff



Above: Alpha Zeta fraternity's overall winning float in the pregame Homecoming Day Parade Saturday depicts a Cornell bull flipping the Yale Bulldog over a goal post, setting the stage for the crucial Ivy League football contest in which Cornell trounced Yale 26 to 0.

Right: Ms. Big Red Bear, adorned with a red bow and in the company of the T-shirted Big Red Bear, makes her debut as a Cornell mascot during a parade through campus before the Cornell-Yale football game last Saturday.

Photographs by Jill Peltzman



1988 Homecoming Parade

Asbestos in sewage sludge alarms toxicologists

The discovery of asbestos in municipal sewage sludge raises safety questions about using the material for fertilizer on recreational and agricultural land because the cancer-causing asbestos could be consumed by animals and humans, Cornell toxicologists say.

When scientists from the Cornell Toxic Chemicals Laboratory and Environmental Science and Engineering Inc. of Florida tested sludge from 15 small New York state cities in 1985, they found that asbestos made up between 1 and 5 percent of the sludge from nine of those cities. An earlier study had found asbestos in sludge from Baltimore, Cincinnati, Dallas, Los Angeles and Philadelphia.

Sludge is the powdery residue from waste water that has gone through municipal treatment plants. Disposing of the millions of tons of sludge produced each year in the United States is a massive problem for cities, which may dump the material in landfills, incinerators or the oceans.

Sludge contains plant nutrients equivalent to a low-analysis fertilizer. About 25 percent of U.S. sludge is used as a soil-conditioning fertilizer for farmlands, golf courses and greenhouses. Federal and state regulations prohibit use on agricultural lands of sludge that contains certain toxic chemicals above specified levels. But no regulations prohibit the use of sludge with asbestos, which is now being removed from

buildings across the country because its fibers were found to cause lung cancer.

"Sludge can't legally be used on agricultural land if it contains copper, zinc, mercury, arsenic, nickel, lead, cadmium, chromium or PCBs above specific concentrations," said Donald J. Lisk, the Cornell professor of toxicology and plant science who headed the studies of municipal sewage sludge. "About one-third to two-fifths of the sludge is too high in these various toxic constituents to go on the land."

Sludge also has been shown in Cornell tests to contain human pathogens such as polio and hepatitis viruses, as well as pesticides, dioxins and other organic carcinogens, Lisk noted.

Lisk is the director of the Cornell Toxic Chemicals Laboratory. For 15 years he has studied the effects of sludge-fertilizer on plants and the animals that eat them, and he has published some 40 papers on it.

"Most people don't know that sewage sludge is routinely used for fertilizer on many commercially grown food crops in this country," Lisk said. "If they knew the sludge constituents are not continuously monitored — and that there are no tests at all for most of the hazardous materials — they might really be concerned. Because of this, the Del Monte Corp. and several other major food processors will not allow sludge to be used on land where their food crops are grown."

Asbestos fibers in sludge could be consumed in several ways, Lisk said. Greenhouse workers using soils with sludge-fertilizer could inhale asbestos, as could golfers walking on greens treated with the fertilizer. Cattle eating crops from sludge-fertilized land could ingest asbestos fibers. So could children playing on sludge-treated recreational or agricultural lands. And fish in oceans where sludge is dumped could consume the asbestos, Lisk said. He noted that asbestos not only damages the lungs, but can pass through intestinal walls and move throughout the body.

"We don't understand where all the asbestos in sludge is coming from. Some types of asbestos-cement sewer pipes include a large amount of asbestos, which can come loose as the pipes deteriorate. But that can't possibly account for the large proportion of asbestos," he said.

More likely, the asbestos is flushed down the drains, the Cornell toxicologist said. Until 1975, the United States used about 800,000 tons of asbestos a year in a variety of applications, including insulating and fire-proofing buildings. Much of that asbestos is now being removed from schools and other public buildings across the country.

Sewage sludge that is burned in incinerators shows no evidence of asbestos, apparently because the incinerators' temperatures of up to 1,000 degrees Celsius are high enough to destroy the mineral. About 27

percent of sewage sludge produced in this country is incinerated.

Animal-feeding studies are continuing at Cornell to learn how toxic materials in sludge are picked up by plants and by the animals that eat them. Heavy metals from sludge have been found in the livers and kidneys of goats, sheep, guinea pigs, rats, mice and quail. One study found heavy metals in birds that ate earthworms from sludge-treated soils. Another detected cadmium and nickel in cigarette smoke from tobacco plants raised in sludge.

"Based on these studies, we recommend incineration of sludge rather than any of the other disposal methods," Lisk said. "The high temperatures of incineration destroy all organics, pathogens and asbestos. Heavy metals are converted to oxides and other forms that are less soluble in water."

The study of small city sludge was reported in the May 1988 issue of the British journal *Chemosphere* by Lisk, a faculty member at Cornell's College of Agriculture and Life Sciences, and by Kusum J. Patel-Mandlik and Charles G. Manos of Environmental Science and Engineering Inc. of Gainesville, Fla. The same scientists reported on incinerated sludge in the May 1988 issue of the *Bulletin of Environmental Contamination and Toxicology*. The March 1985 issue of that bulletin reported the study of large city sludge.

—Roger Segelken

Hearing ends Proxy Review Committee's research

A public hearing last Thursday closed out some 20 hours of meetings held by the Proxy Review Committee as part of the Board of Trustees' review of its selective-divestment policy concerning companies operating in South Africa.

The committee, charged with gathering a wide range of facts and opinions, is to report its findings to the board's Investment Committee by Nov. 23.

After reviewing that report, along with reports from the university counsel and the university treasurer, the Investment Committee will make recommendations in mid-January to the full board, which will vote at its Jan. 27-28 meeting on whether to alter the policy.

About 85 people came to Room 45 of Warren Hall for the public hearing, which was moderated by University Assembly Chair Cleo Bash, director of Willard Straight Hall.

At a table set perpendicular to the speakers' lectern were Committee Chair Patricia Carry Stewart and members Bethany Dreyfus, Ronald Ehrenberg and Paul Tregurtha.

Twenty people signed up in advance to speak. Because they did not consume the meeting's allotted two hours, members of the audience were invited to speak, and half a dozen did.

All the speakers but one — Gordon Messing, a professor emeritus of classics and linguistics — favored total divestment of holdings in companies doing business in South Africa.

Some of the strongest words came from Professor Michael C. Latham, director of the Program in International Nutrition, who praised the committee's diligence but said the full board "has deliberately weakened your role and regrettably made your best efforts rather meaningless."

Latham was criticizing the fact that although the committee was holding a public forum and other meetings, it only is to make a factual report, while the Investment Committee is to forge recommendations for the full board.

Committee members praised the dignity of the forum. There were no distracting protests or outbursts. The committee members listened — occasionally responding to speakers — and the audience listened, ap-

plauding when the four-minute presentations were completed. Even Messing's anti-divestment comments, although obviously unpopular, won polite applause, along with a few hisses.

Cornell's current investment policy, which was adopted three years ago, limits such investments to companies with the top two ratings under the Sullivan Principles (now known as the Statement of Principles), whose corporate signers agree to take actions and spend money toward the elimination of apartheid and to file annual reports for an independent monitoring agency.

A number of the speakers echoed views that members said had been expressed at the committee's earlier meetings: They acknowledged that U.S. companies accomplished good and promoted the prosperity of their employees, but they asserted that this good is insignificant compared to the support given South Africa's status quo by the mere presence of U.S. companies.

Latham and several other speakers also said faculty involved in Africa-related programs are embarrassed by their university's continued financial connection with South Africa.

With the current selective divestment policy, about \$42.6 million of Cornell's \$1 billion in total investments are in companies involved in South Africa, down from \$146.5 million as of Dec. 31, 1986.

And \$8.04 million of the \$42.6 million is in companies already pledged to leave South Africa, according to the Treasurer's Office.

When the board pledged three years ago to review its policy now, it said it would consider phased, total divestment if "it appears that private-sector efforts in general and the efforts of particular companies in the university investment portfolio have resulted in insufficient progress toward ending apartheid. . . ."

In meetings that have been conducted in New York City and Ithaca since Oct. 7, the Proxy Review Committee has heard from executives of companies that have stayed in South Africa and those that have left, from members of the Cornell faculty and other academics, and from journalists, students, anti-apartheid activists and South Africans of all races.

The United Nations observer of the Afri-

can National Congress was scheduled to speak at one session, but he did not show up.

Although the meetings were not open, almost all of them were attended by the elected leaders of the several campus assemblies, who were free to question the invited speakers.

The university faculty and the group Faculty and Staff Against Apartheid also were represented regularly.

—Sam Segal



Michael C. Latham

Doug Hicks



Charles Whitt, right, a student in the College of Agriculture and Life Sciences, talks with Trustee Paul Tregurtha after the public hearing on divestment last Thursday.

Doug Hicks

Some health care premiums to go up

Citing the soaring costs of health care nationwide, Cornell officials have announced that employees of endowed units will pay increased premiums for health coverage, beginning in January.

The increases in contributions range from zero for single coverage under the 80-20 percent coverage plan (Option II) to 24.7 percent for family coverage under the 100 percent coverage plan (Option I), according to Marilyn Paluba, associate director of human resources.

In 10 years, health care costs' share of Cornell's benefits budget has more than tripled from 6 percent to 21 percent, and health care costs amounted to \$9.1 million for the 1987-88 fiscal year, Paluba pointed out. She also said that participants contributed about \$2.5 million during the same period.

She added that a letter, Contact, outlining Cornell's endowed health care program and explaining the increase in contributions is being mailed to all participating employees of endowed units, at their home addresses. The Contact letter also explains that employees can alter their health coverage — changing to Option I or Option II, adding or removing dependent coverage — between now and Dec. 15. Changes requested during this time become effective on Jan. 1.

Health coverage can be altered during other times of the year only if there are changes in an employee's family, such as the birth of a child, a marriage or the loss of a spouse's benefits, Paluba explained. But during the open-enrollment period, employees can change their coverage regardless of their family or health situation, she said.

In discussing the rising expenses of health care in the Contact letter being sent to employees, Paluba noted that "Cornell is not alone in experiencing the impact of skyrocketing health care costs.

Other universities and employers nationwide are reporting medical plan increases of 20 percent and 50 percent and are taking steps like the Cornell program to control the growth of these expenditures."

The Wall Street Journal reported on Oct. 25 that "employers can expect another round of double-digit increases in their health-insurance premiums next year — and workers may be pressed to pay a sizable share of the increases out of their own pockets."

The Journal article attributed the rising costs to medical inflation, the shifting of costs by hospitals and doctors from the public sector to the private sector, the additional costs of using high-technology equipment and increasing premiums for malpractice insurance.

While reviewing Cornell's increasing health-care costs, consideration was given to the total compensation package — salary plus benefits. The administration believes that providing financial support for the salary increase program while maintaining fringe benefits at the current percentage of total compensation is the best strategy for faculty and staff compensation increases, said Lee M. Snyder, director of the Office of Human Resources. This approach distributes most of the compensation increment to individuals rather than to the fringe benefit pool.

At Cornell, Option I provides 100 percent coverage for most medical expenses and 80 percent coverage for other specified expenses after a \$100 deductible per individual and a \$300 deductible limit for all family members.

At present, this option costs employees \$9.70 biweekly, or \$250 a year, for single coverage and \$40.90 biweekly, or \$1,060 a year, for family coverage. Beginning with the exempt pay date of Jan.

12 and the non-exempt pay date of Jan. 19, single coverage will go up to \$11.70 biweekly, or \$300 a year, a 20.6 percent increase, and family coverage will go up to \$51.02 biweekly, or \$1,325 a year, a 24.7 percent increase.

Option II provides 80 percent coverage of medical costs after a \$200 deductible per individual and a \$400 deductible limit for all family members.

At present, this option costs employees nothing for single coverage and \$19.50 biweekly, or \$500 a year, for family coverage. Beginning in January, single coverage will remain at no cost to employees but family coverage will go up to \$21.60 biweekly (\$560 a year), a 10.7 percent increase.

Cornell's program will continue to include several "cost containment features" such as requiring the precertification of hospital stays, the obtaining of a second opinion prior to surgery and the use of out-patient surgery whenever appropriate, Paluba said.

The costs of health care coverage passed on to employees in endowed units last increased in April, when Cornell instituted its two-option plan in which employees could choose continuing their coverage by paying higher premiums or switching to a new coverage plan with lower premiums.

"The contribution adjustment that should have occurred in January 1988 was deferred until April 1988 when the new plan Option II was introduced," Paluba said. "Therefore, you did not see a contribution increase in January 1988; rather you saw an increase at the end of April. The university absorbed the normal increase for plan participants for the four-month period from January 1988 to April 1988. The increase we are seeing now is the normal annual adjustment."

—Mark Eyerly

Turner urges more support for local human rights effort

James Turner, an associate professor of Africana studies, said he hopes to involve more faculty and staff in the work of the Tompkins County Human Rights Commission during his term as chairman.

"Cornell could make a whale of a difference in our community human rights work, and I am trying to draw both faculty and administrative staff into our projects," Turner said.

"Often in Ithaca we see a concept of two different communities, with Cornell perched up on a hill above the town. There are some individuals — few as they are — at Cornell who have been working with the commission since it was founded 25 years ago, but I want to see more participation from the Cornell community," he said.

Since his election this summer to chairmanship of the Human Rights Commission, Turner has been scheduling its meetings in various Tompkins County towns in order to spread the commission's work beyond Ithaca.

"We are establishing a speakers bureau to provide human rights experts to schools, churches and civic organizations, and we would appreciate hearing from anyone in the community who would like to help in our work," he said.

On Human Rights Day, Dec. 10, members of the Tompkins County organization will staff booths in downtown Ithaca and at Pyramid Mall to provide information and discuss human rights issues with the public.

"The commission is concerned about many forms of discrimination including in housing, employment, problems of disabled people and single mothers, and racially-motivated crime and vandalism," Turner said.

Turner was the founding director of Cornell's Africana Studies and Research Center. The county's Human Rights Commission may be contacted at 274-5305.

—Albert E. Kaff

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, Ithaca, NY 14850.

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

Notices should also include the subheading of the calendar in which the item should appear.

DANCE

Cornell Folkdancers

The Cornell community and general public, including beginners, are welcome. Admission is free, unless stated.

A business meeting will be held from 6 to 7 p.m., Nov. 13, North Room, Willard Straight Hall. Instruction and request dancing will be held from 7 to 9:45 p.m. For more information, call Wies van Leuken: 257-3156.

Scandinavian Turning Dances workshop, Nov. 12, 2:30 - 5:30 p.m., Martha Van Rensselaer auditorium. Beginners welcome, no partners needed. For more information, call 253-7938 or 255-4669.

Israeli Folkdancing

Israeli folkdancing, Nov. 10, 8:30 p.m., Edwards Room, Anabel Taylor Hall.

EXHIBITS

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. Telephone: 255-6464.

"Contemporary Art in Czechoslovakia: Selections from the Jan and Meda Mladek Collection," featuring the work of 12 Czech artists and including sculpture, painting, collage and reliefs, on view through Dec. 23. Artists represented in the show are: Vladimir Janousek, Magdalena Jetelova, Jiri Kolar, Stanislav Kolibal, Eva Kmentova, Karel Malich, Jiri Naceradsky, Karel Nepras, Ladislav Novak, Adriana Simotova, Otakar Slavik and Ales Vesely. The exhibit was planned in conjunction with Cornell's Festival of Czech Culture.

"Nature Transcribed: The Landscapes and Still Lives of David Johnson (1827-1908)," an exhibition of 40 paintings and eight drawings by the 19th-century American landscape painter David Johnson, which will be the first retrospective exhibition of the artist's work, through Dec. 23.

In conjunction with the exhibit, Gwendolyn Owen, director of the Art Gallery, University of Maryland, College Park, and former curator of painting and sculpture at the Johnson Museum, will give a gallery talk on the show, Nov. 13, 2 p.m., Johnson Museum.

"Transformations: Louis I. Kahn's Library Projects," an exhibition of original sketches, office drawings and photographs exploring the designs of Louis I. Kahn for three self-contained school libraries, through Dec. 16. The exhibit, co-sponsored by the School of Architecture, attempts to trace the genesis and evolution of Kahn's design process.

"Sculptures and Pastels by Clara Seley," an exhibition of approximately 20 sculptures and 20 pastels created during the past 20 years, through Nov. 13.

"Media Buff.: Media Art of Buffalo, N.Y.," the eighth part in a series of exhibits by New

York state artists, devoted to contemporary video and films from Buffalo, N.Y., through Nov. 13. It was organized by Richard Herskowitz, adjunct curator of film and video at the Johnson Museum, who will conduct a box lunch tour of the show today beginning at noon. The tour is free and begins in the museum's lobby.

Mann Library

Rare books on the history of lace and techniques of lace making, lace from private collections, photographs and memorabilia prepared by the Finger Lakes Lace Guild are on display in the lobby of Mann Library, Monday-Friday, 8 a.m. to midnight; Saturdays, 10 a.m. to 6 p.m.; Sundays, 11 a.m. to midnight, through Nov. 28.

FILMS

Films sponsored by Cornell Cinema unless otherwise noted. An (*) means an admission charge.

Thursday, 11/10

"Kailash at Ellora," "Khajuraho," and "The Immortal Stupa," sponsored by South Asia Program, 5 p.m., L04 Uris Library.

"Situation Zero" (1988), a documentary about Cambodians living in refugee camps on the Thai-Cambodian border, by Stanley Harper, sponsored by Southeast Asia Program, 4:30 p.m., Kaufmann Auditorium, Goldwin Smith Hall. Discussion with filmmaker will follow.

"Husbands" (1972), directed by John Cassavetes, with Ben Gazzara, Peter Falk and John Cassavetes, 8 p.m., Uris.*

"The Uncompromising Revolution" (1988), directed by Saul Landau, sponsored by CUSLAR, 8 p.m., Anabel Taylor.

Friday, 11/11

"Wings of Desire" (1987), directed by Wim Wenders, with Bruno Ganz, Otto Sander and Peter Falk, 6:45 p.m., Uris.*

"Don't Look Back" (1967), directed by D.A. Pennebaker, with Bob Dylan, Joan Baez and Donovan, 8 p.m., Anabel Taylor.*

"Midnight Run" (1988), directed by Martin Brest, with Robert De Niro, Charles Grodin and Yaphet Kotto, 9:15 p.m., Uris.*

"The Adventures of Buckaroo Bonzai" (1984), directed by W.D. Richter, with Peter Weller, John Lithgow and Ellen Barkin, midnight, Uris.*

Saturday, 11/12

"Wings of Desire," 9:30 p.m., Uris.*

"Midnight Run," 6:45 p.m., Uris.*

"Gimme Shelter" (1970), directed by David Maysles, with Mick Jagger, Ike & Tina Turner and Jefferson Airplane, 7:30 p.m. and 9:30 p.m., Anabel Taylor.

Sunday, 11/13

"Art and Artisans IV - Women and Cultural Continuity," co-sponsored by CCPA, 2 p.m., Johnson Museum.

"Meet Me in St. Louis" (1944), directed by Vincente Minnelli, with Judy Garland and Margaret O'Brien, co-sponsored by the Ithaca Youth Bureau, 2 p.m., Uris.*

"War Games" (1983), directed by John Badham, with Matthew Broderick, Dabney Coleman and Ally Sheedy, co-sponsored by computer science undergraduates, 8 p.m., Uris.*

Monday, 11/14

"Consuming Hunger" (1986), directed by Ilan Ziv, co-sponsored by the Camel Breeders, 8 p.m., Uris.*

Tuesday, 11/15

"Late Summer Blues" (1987), directed by Renen Schorr, with Dor Zweigenbom, Yoav Tsafir and Shasas Segal, 8 p.m., Uris.*

Wednesday, 11/16

"A City at Chandigarh" (1966), directed by Alain Tanner, written by John Berger, shown with "The Middle of the World" (1974), directed by Alain Tanner, with Olimpia Carlisi, Philippe Léotard and Juliet Berto, 8 p.m., Uris.

Thursday, 11/17

"Don't Start Me Talking" (1987), directed by Stevenson Palfi, with John O'Neal, co-sponsored by Pentangle and CCPA, shown with "Piano Players Rarely Ever Play" (1982), directed by Stevenson Palfi, with Isidore Washington, Professor Longhair and Allen Toussaint, 8 p.m., Uris.

LECTURES

Africana Studies & Research Center

"The African Crisis and the American Presidential Elections: Does it Make a Difference?" A.M. Babu, former minister of economic development and planning, United Republic of Tanzania, Nov. 14, 4:30 p.m., Hoyt Fuller Room, Africana Studies & Research Center, 310 Triphammer Rd.

Applied Mathematics

"Mathematica - A System for Doing Mathematics by Computer," Stephen Wolfram, Wolfram Research Incorporated and University of Illinois, Nov. 14, 4:30 p.m., 120 Ives Hall.

Archaeology

"The Halai and East Lokris Project," (in Greece), John Coleman, classics, Nov. 10, 8 p.m., 22 Goldwin Smith Hall.

Art

Printmaking on color etching, Swietlan N. Kraczyna, head, color etching, IL Bisonte, International School of Advanced Printmaking, Florence, Italy, Nov. 10, 5:30 p.m., 115 Olive Tjaden Hall.

Baker Lecture Series

"Enzymes: Stereochemistry and Mechanism," Jeremy Knowles, Harvard University, Nov. 10 and Nov. 15, 11:15 a.m., 119 Baker.

Campus Activities Center

"A Conversation with Maynard Jackson: New Phenomena in the American Political Experience," Maynard Jackson, managing partner, Chapman and Cutler, and former mayor, Atlanta, Ga., Nov. 11, 4:30 p.m., Hollis E. Cornell Auditorium, Goldwin Smith Hall.

Classics

"'Arma' in Ovid's 'Fasti': Genre, Mannerism and Augustan Ideology," Stephen Hinds, classical studies, University of Michigan, Nov. 17, 4:30 p.m., 156 Goldwin Smith Hall.

Cognitive Studies

"The Critical Period in Language Acquisition: Effects of Maturation State and Input on Linguistic Competence," Elissa Newport, psychology, University of Rochester, Nov. 16, 4:30 p.m., 202 Uris Hall

East Asia Program

"Recent Chinese Scholarship on Sino-American Relations," Zhang Baijia, research, Chinese Academy of Social Sciences, senior visiting fellow, University of North Carolina, Nov. 10, 4:30 p.m., 374 Rockefeller Hall.

"Return of the Native: Japan in Madama Butterfly/Madama Butterfly in Japan," Art Gross, German literature, lecture and audio demonstration, Nov. 11, 4:30 p.m., 230 Rockefeller Hall.

Food & Nutrition Policy

"Food Price Stability and Welfare of the Poor," Peter Timmer, economist and professor at large, Harvard University, Nov. 15, 2 p.m., 166 Martha Van Rensselaer Hall.

Graduate Women in Science

"Chemistry Research in Industry," Susan Boettger, chemist, Bristol-Myers, Nov. 16, 7:30 p.m., 135 Emerson Hall.

Hillel

"The Holocaust Through the Eyes of a Mengele Twin," Susan Seiler Vigorita, Nov. 10, 7:30 p.m., Bache Auditorium, Malott Hall. Presented by the James Norris Oliphant Distinguished Fellows Lectures Series of Sigma Phi Society.

"Elections '88 - The Implications for Israel," a panel discussion, Nov. 15, 8 p.m., Founders Room, Anabel Taylor Hall.

Industrial & Labor Relations

"Women and Power on Campus, in Politics and at Work," Eleanor Smeal, national advisory chair of the National Organization for Women (NOW) and president of the Fund for the Feminist Majority, Nov. 16, noon, Alice Statler Auditorium.

Jewish Studies Program

"Reichskristallnacht," a roundtable of eyewitnesses on the 50th anniversary of the Nazi burning of German synagogues, moderated by S. Katz, Near Eastern Studies and N. Sher, director, Office of Special Investigations, U.S. Dept. of Justice, and including T. Eisner, neurobiology; K. Gottfried, physics; L. Gruenfeld, ILR; W.W. Holdheim, comparative literature/French; G. Kor-

man, ILR; I. Kovary, modern languages; E. Rosenberg, English/comparative literature, Nov. 10, 8 p.m., 374 Rockefeller Hall.

Latin American Studies Program

"Mexico 1988: The Beginning of the End of an Authoritarian Regime?" Lorenzo Meyer, El Colegio de Mexico and visiting professor, Columbia University, Nov. 11, 12:15 p.m., G-08 Uris Hall.

Music

"Operatic Madness: A Challenge to Convention," Ellen Rosand, Rutgers University, Nov. 17, 4:15 p.m., 301 Lincoln Hall. This is a Grout Lecture.

Southeast Asia Program

"Chinese Marriage in Thailand: Rethinking G. William Skinner," Jennifer Cushman, visiting professor of Asian Studies, SEAP, research fellow, Australian National University, Nov. 10, 12:20 p.m., 102 West Ave. Ext.

"The Communist Party of the Philippines After 1986," Patricio Abinales, SEAP graduate, government, Nov. 17, 12:20 p.m., 102 West Ave. Ext.

Theory Center

"Theoretical Organometallic Chemistry," Michael B. Hall, chemistry, Texas A&M University, College Station, Tex., Nov. 16, 1:30 p.m., A106 Corson/Mudd Hall.

University Lectures

"Distinctive Neighbors: Institutions and Values in Canada and the United States," Seymour M. Lipset, political science and sociology, Stanford University, Nov. 16, 4:30 p.m., Kaufmann Auditorium, Goldwin Smith Hall.

MUSIC

Department of Music

The Pro Arte Quartet will give the second concert of Cornell's Festival of Czech Culture, performing works by Czech-born composers Karel Husa, Bedrich Smetana and Leos Janacek, Nov. 11, 8:15 p.m., Barnes Hall.

Biber's "Mystery" violin sonatas (15 sonatas in 15 different tunings) will be performed by Sonya Monosoff, violin, and Joyce Lindorff, harpsichord and organ, Nov. 12, 7:30 p.m., Barnes Hall as part of the Czech Culture Festival.

Fortepianist Malcolm Bilson and four members of the Toronto-based Tafelmusik Orchestra will perform a program including Mozart's Flute Quartet in C Major, Sonata for Piano Solo in A Minor and Piano Quartet in G Minor and Haydn's Trio for Flute, Piano and Cello, Nov. 15, 8:15 p.m., Barnes Hall.

Bailey Hall Series

Spanish pianist Alicia De Larrocha will give the second concert of the 1988-89 Bailey Hall Series, Nov. 17 at 8:15 p.m. in Bailey Hall. Her program will include music by Felix Mendelssohn, and Books III and IV from the "Iberia" suite composed by her compatriot Isaac Albeniz. Tickets are on sale at Lincoln Hall ticket office, Monday-Friday, 9 a.m. to 1 p.m., or by calling 255-5144.

Glee Club Hangovers

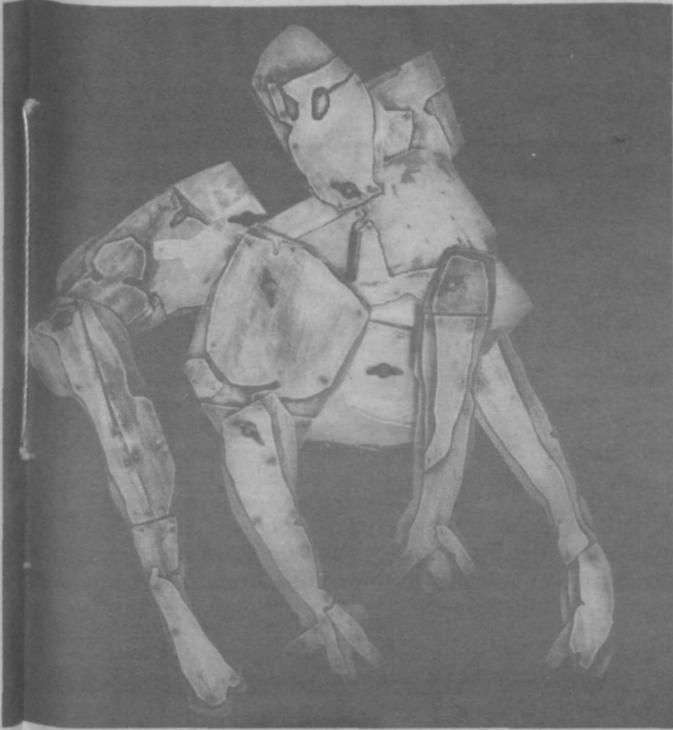
The Cornell Glee Club Hangovers, a 13-member subset of the Glee Club, will present the annual capella jamboree, Fall Tonic, Nov. 12, 8:15 p.m., Bailey Hall. The program will also include musical groups from Smith and Amherst colleges. Tickets are available at the Willard Straight Hall Ticket Office.

Bound for Glory

Pat Humphries, political singer-songwriter, will perform in three live sets in the Commons Coffeehouse, 8:30 p.m., 9:30 p.m. and 11:30 p.m., Nov. 13. Bound for Glory can be heard from 8 to 11 p.m. on WVBR-FM93.

READINGS

Reading of a play by Czech author Vaclav Havel, followed by discussion led by Stan Wojewodski, artistic director of Center Stage,



"Juggler" (1978) by Vladimir Janousek, a movable relief, from the exhibition, "Contemporary Art in Czechoslovakia," and "Harbor Island, Lake George" (1871), an oil painting from the exhibition "Nature Transcribed: The Landscapes and Still-Lives of David Johnson," are on display at the Herbert F. Johnson Museum of Art. See the listings for details.

Baltimore, Md., Nov. 10, 4:30 p.m., Film Forum, Center for Performing Arts.

Novelist Anita Desai will give a reading sponsored by the English Department, Nov. 17, 4 p.m., A.D. White House.

RELIGION

Sage Chapel

Laurence Edwards, university Jewish chaplain, will deliver the sermon at Sage Chapel on Nov. 13. Services begin at 11 a.m. Music will be provided by the Sage Chapel choir, under the direction of Donald R.M. Paterson.

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., Anabel Taylor Founders Room.

Episcopal (Anglican)

Every Sunday, 5 p.m., Anabel Taylor Chapel.

Friends (Quakers)

Sunday, 10 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, 106 West Ave. Call 272-5810; Saturday 9:15 a.m., Edwards Room, Anabel Taylor Hall.

Korean Church

Every Sunday, 1 p.m. Anabel Taylor Chapel.

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.
Baptist Campus Ministry (SBC): Every Saturday, 7 p.m., in the Forum, Anabel Taylor Hall.

Zen Buddhism

Zazen meditation: Tuesdays at 7 p.m. and Thursdays at 5:10 p.m. in the chapel or the Edwards Room, Anabel Taylor Hall. For more information or to arrange beginner's instruction, telephone Ian Dobson: 347-4303.

SEMINARS

Agronomy

"The Application of a Leaching Model to Pesticide Movement in a Field Soil," John L. Jutson, agronomy, Nov. 15, 4 p.m., 135 Emerson Hall.

Applied Mathematics

"A Portable Implementation of the Simplex Method," Robert E. Bixby, Rice University, Nov. 11, 4 p.m., 322 Sage Hall.
"Steady Structured Shock Waves: Thermoelastic Materials," Roger Fosdick, University of Minnesota, Nov. 11, 2:30 p.m., 322 Sage Hall.

Astronomy

"What We've Learned About Substructures in Clusters of Galaxies from X-ray Observation," Dan Fabricant, Harvard-Smithsonian, Center for Astrophysics, Nov. 10, 4:30 p.m., 105 Space Sciences.
"Origin of Planetary Atmospheres," Tobias C. Owen, SUNY at Stony Brook, Nov. 17, 4:30 p.m., 105 Space Sciences.

Biochemistry, Molecular & Cell Biology

"Components of the Translation Initiation Complex Required for Start Site Selection During the Scanning Process," Tom Donahue, molecular biology and biochemistry, Northwestern University Medical and Dental School, Nov. 11, 4:30 p.m., 204 Stocking Hall.

Biophysics

"Ion Transport, Relaxation Techniques and Fractals," T. Gregory Dewey, chemistry, University of Denver, Nov. 16, 4:30 p.m., 700 Clark Hall.

Chemical Engineering

"Process Optimization via Simulated Annealing: Application to Network Design," Peter Cummings, chemical engineering, University of Virginia, Charlottesville, Va., Nov. 15, 4:15 p.m., 145 Olin Hall.
"Selective Solubilization in Reversed Micelles," T. Alan Hatton, chemical engineering, M.I.T., Nov. 16, 4:15 p.m., 145 Olin Hall.

Chemistry

"Cubanes, Cubenes and Bicycyls," Philip Eaton, University of Chicago, Nov. 14, 4:40 p.m., 119 Baker.

Cognitive Studies

"Possible Mechanisms Underlying a Critical Period for Language Acquisition," Elissa Newport, psychology, University of Rochester, Nov. 17, 4:30 p.m., 262 Uris Hall.

Communication

"Learning About TV: Development of Mass Media Education in Schools," Robert Rieger, graduate student, communication, Nov. 11, 2:30 p.m., room 3, 640 Stewart Ave.

Computer Services (Lunchtime Bytes)

"Cornell University Library's Online Catalog," Lynne Personius, assistant director, Cornell Infor-

mation Technologies, Nov. 17, 12:20 p.m., 100 Caldwell Hall.

Ecology & Systematics

"Deciphering the Ammonite Suture Line," Adolph Seilacher, geology, Yale University, Nov. 16, 4:30 p.m., Morison Seminar Room, A106 Corson/Mudd Hall.

Education Society

"Perspectives in Administration," Joan Egner, education, Nov. 15, 12:20 p.m., 131 Roberts Hall.

Electrical Engineering

"Adaptive Interference Suppression via Hybrid Nulling," Stephen C. Pohling, M.I.T. Lincoln Laboratory, Lexington, Mass., Nov. 15, 4:30 p.m., 219 Phillips Hall.

English

"'John, John, I Blush For Thee!': Representations of Eve in Paradise Lost," Joseph Anthony Wittreich Jr., Graduate School and University, Center of the City University of New York, Nov. 14, 4:30 p.m., 115 Rockefeller Hall.

Entomology

"Toward Integrated Management of Greenhouse Whitefly on Poinsettia," John Sanderson, entomology, Nov. 14, 4 p.m., Morison Seminar Room, Corson/Mudd Hall.

Environmental Toxicology

"Reproductive Toxicology: Environmental Impact on the Placenta," Richard Miller, University of Rochester, School of Medicine & Dentistry, Nov. 11, 12:20 p.m., 304 Femow Hall.

Floriculture & Ornamental Horticulture

"Salt Resistance in English Ivy," David Headley, Ph.D. candidate, Nov. 10, 12:15 p.m., 404 Plant Science Bldg.

Food Science & Technology

"Anti-oxidants from Acorns," Jennifer Jae-Wen Chiou, food science, Nov. 15, 4:30 p.m., 204 Stocking Hall.

Geological Sciences

"The Palmyrides Intracratonic Fold and Thrust Belt in Syria," Muawia Barazangi and John Best, Nov. 10, 4:30 p.m., 1120 Snee Hall.
"Laramide Basin Subsidence and Basement Uplift in the Rocky Mountain Foreland," James Steidtmann, University of Wyoming, Nov. 15, 4:30 p.m., 1120 Snee Hall.

History & Philosophy of Science & Technology

"Safe Science and Risky Science: Competition for the Chair of Logic and Metaphysics at Edinburgh, 1836," Thomas F. Gieryn, visiting associate, science, technology and society, sociology, Nov. 10, 4:30 p.m., 165 McGraw Hall.

Immunology

"Applications of Flow Cytometry in a Research and Clinical Laboratory," Bruce Letwin, immunology, Biogen, Cambridge, Mass., Nov. 11, 12:15 p.m., G-3 Vet Research Tower.

International Nutrition

"The Effect of Breastfeeding on the Length of Postpartum Amenorrhea Among Guatemalan Women," Kathy Kurz, nutritional sciences, Nov. 10, 12:40, 200 Savage Hall.

Mechanical & Aerospace Engineering

"Student of Spray Systems Using Laser Scattering Techniques," Cary Presser, National Bureau of Standards, Nov. 15, 4:30 p.m., 282 Grumman.

Mechanical & Aerospace Manufacturing Engineering

"Steps to Implement Quality," Art Tenner, Exxon Corporation, Nov. 10, 4:30 p.m., B14 Hollister Hall.

Microbiology

"Surface Colonization by Pure Cultures of Bacteria Versus Natural Communities," Douglas Caldwell, applied microbiology and food science, University of Saskatchewan, Canada, Nov. 10, 4:30 p.m., 124 Stocking Hall.
"An Evolutionary Perspective on Lentiviruses," Michael Braun, Laboratory of Molecular Systematics, Smithsonian Institute, Nov. 14, noon, G-3 Vet. Research Tower.

Neurobiology and Behavior

"The Visual Control of Eye Growth in Chicks," David Troilo, biological sciences, City College of New York, Nov. 10, 12:30 p.m., Morison Seminar Room, A106 Corson/Mudd Hall.

Nutrition

"Statistical Evidence in Experimental Data," George Casella, plant breeding & biometry, Nov. 14, 4:30 p.m., 100 Savage Hall.

Ornithology

"Of Tinkers, Turrs and Treaties: Conservation of Seabirds on the Gulf of St. Lawrence North Shore," Kathleen Blanchard, research and education director, Atlantic Center for the Environment, Nov. 14, 7:45 p.m., Fuertes Room, Laboratory of Ornithology, 159 Sapsucker Woods Road.

Pathology

"In Vitro Fertilization as a Tool in Cattle Breeding and Research," Keith Betteridge, animal biotechnology, University of Guelph, Ontario Veterinary College, Nov. 16, noon, G-3 Vet Research Tower. Sponsored by the Bovine Research Center.

Peace Studies

Title to be announced, Stuart Thorson, Syracuse University, Nov. 10, 12:15 p.m., G-08A Uris Hall.
"The Logic of Western Public Opinion About Arms Control," Don Munton, University of British Columbia, Nov. 15, 12:15 p.m., G-08A Uris Hall.

Pharmacology

"Protein Myristylation as an Intermediate in Signal Transduction in Macrophages," Alan A. Aderem, cellular physiology, Rockefeller University, Nov. 14, 4:30 p.m., G-3 Vet Research Tower.

Physiology

"Intercellular Communication and Cancer, Role of Oncogenes, Chemical Tumor Promoters and Growth Factors," James E. Trosko, pediatrics, human development, College of Human Medicine, Michigan State University, Nov. 15, 4:30 p.m., G-3 Vet Research Tower.

Continued on page 9

Chemical right-to-know law poses no problem

As a result of two federal requirements, new Cornell employees are learning more than they would have about toxic chemicals in the workplace and emergency officials in surrounding community have details on hazardous substances in use on campus.

The federal Hazard Communication Standard and the Superfund Reauthorization Amendment require several new procedures that Cornell can follow without difficulty, according to Robin A. Goodloe, training coordinator in the Cornell Office of Environmental Health:

- New employees must receive information on toxic chemicals in their workplace before beginning work.
- A written compliance plan for hazard communication must be maintained.
- Toxic chemicals on campus in large quantities must be inventoried, and this information must be provided to emergency preparedness officials in surrounding communities.

Cornell has been complying with New York State's toxic substance laws for the

past seven years and by now the university is seen as a model and a leader among its peers, so the federal Hazard Communication Standard, which superceded the state law on May 23, presented no problem to Goodloe and her colleagues.

Cornell spends about \$1 million a year on environmental health and life safety programs, providing right-to-know chemical safety training to new employees as well as periodic updates on specific safety issues.

Earlier this year, consumer advocate Ralph Nader said in an interview with the Cortland Standard newspaper that Cornell leads the way "in improving the training of laboratory workers, informing the students and setting standards."

Dr. Sidney Wolfe, director of the Public Citizen Health Research Group, an organization affiliated with Nader, told the San Jose Mercury News that Cornell has a model safety program, in contrast to some universities whose health and safety programs he called "a disaster."

The Federal Hazard Communication

Standard is "effectively a federal version of the state right-to-know law," which Cornell was certified in compliance with in 1985, said Judith A. Crawford, director of the Cornell Office of Environmental Health.

Goodloe said that the initial employee information requirement will be met by supervisors in each workplace who are qualified by the training they already have received.

Soon after hiring, new employees will attend more comprehensive chemical safety courses taught by specialists from the Office of Environmental Health, which runs nearly 100 training sessions a year.

Employees receive instruction on safety procedures and toxic substances that are specific to the job as well as how to use material safety data sheets and product labels.

Goodloe said the new federal law requires that product labels — which contain information on chemical composition, hazards and first aid instructions — be maintained on containers. And the more de-

tailed material safety data sheets (MSDSs) provided with the manufacturer's product must be kept in the area where the product is used.

Cornell also has had a head start in complying with the other new regulation — the community right-to-know requirement, which is being phased into effect for 1989 and which was prompted by the accidental release of deadly chemicals from a Union Carbide Co. pesticide plant in Bhopal, India.

Life Safety Director Gordon Maycumber said an inventory was made of much of the university's toxic chemical stock when personnel training procedures were developed. The remainder was accounted for this year in department-by-department surveys.

Six chemicals used at Cornell were reported to the Tompkins County Local Emergency Planning Committee as exceeding the Environmental Protection Agency's "threshold planning quantity" (see accompanying list below).

—Roger Segelken

Clean-up team responds to community's calls, too

From a broken acid beaker in a university laboratory to an overturned chemical tanker on a state highway, Cornell Life Safety's emergency response crew has become a valuable asset to the university and the surrounding community.

With equipment ranging from simple bicarbonate of soda to sophisticated "chemical resistance" suits and floating containment booms, the crew can assess the danger of thousands of chemicals, contain spills and clean them up.

The university established and equipped the "haz-mat" unit because of the hundreds of potentially dangerous substances in daily use in the laboratories, shops, and other facilities of a major research university, said Gordon Maycumber, director of Life Safety.

Unlike chemical manufacturing plants — where millions of gallons of a few toxic substances are on the premises — quantities between a few ounces and five gallons are typical of Cornell's research chemical inventory, he said.

And some chemical quantities are decreasing, Maycumber added, reporting that his crew routinely disposed of only 12,000 gallons of waste solvents (such as benzene and alcohol) last year, compared with 15,000 gallons the year before. He credits the universitywide "Less is Better" campaign that encourages laboratory workers to purchase and store only as much solvent and other chemicals as they will need.

But he said the variety of chemicals in research is constantly expanding, and that calls for toxic-chemical expertise rare in even the largest municipal fire departments. Cornell shares that expertise through local and regional mutual aid radio networks.

"We've gone as far as Allegheny County, Pennsylvania," said Environmental Safety Technician Harry Dilles, recalling a request several years ago for Cornell's chlorine gas detector. "Chlorine had leaked from a water-treatment plant there. Nearby residents were evacuated, and the authorities needed to test for chlorine before letting people back into their homes. There were only two chlorine gas detectors and operators available that weekend, one in California and one at Cornell."

Closer to campus, the hazardous materials crew was called to Route 13 last summer when a tank truck of anhydrous ammonia, which was passing through the Ithaca area, overturned on the highway. Had the tank of toxic fertilizer ruptured during salvage op-



Life Safety Service's Harry D. Dilles helps Edward J. Kowalski into a chemical resistance/fire proximity suit used for handling spills of hazardous materials.

Claude Levett

erations, the haz-mat technicians were equipped to control the spill.

The crew carries its tools of the clean-up trade in a hazardous materials trailer hauled behind Life Safety's emergency vehicles.

For acid spills, the team carries half a ton

of bicarbonate of soda, the same chemical found in many medicine cabinets as a remedy for acid indigestion, Dilles said. Silkwick, a highly absorbent product made of ground corn cobs, is used to soak up fuels; the absorbent and the spill then can be

safely burned in incinerators or even heating plants, he said. Floating absorbency booms are coiled like huge snakes in the trailer, ready to corral and remove many kinds of chemicals from water in lakes and streams.

Also in the haz-mat trailer is a heavy-duty electric generator to run lights and pumps, and the compressed air system that feeds fresh breathing air through the "umbilical" hose to Life Safety's chemical-resistance/fire-proximity suits. The only outfits of the kind in this part of New York State, the chemical-resistance suits are tailored of reflective aluminum and Nomex fabric to protect against extreme heat. A second, inner suit seals out toxic fumes and liquids while the wearer performs rescue and clean-up duties.

So far, the team hasn't needed the chemical-resistance suits for emergencies on or off campus. Spills of moderately toxic materials are more routine for the haz-mat crew. Earlier this year, for example, they responded to reports of a ruptured diesel fuel tank in an off-campus delivery truck. Observing fuel flowing into storm sewers, the technicians rigged absorbency booms across an inlet to Beebe Lake to intercept the oily spill before it spread.

Absorbency booms were used again in June when some 100 gallons of an antifreeze and water mixture entered Fall Creek from a leak in the campus chilled-water system. Life Safety technicians reached the Fall Creek gorge and were cleaning up the antifreeze within half an hour of when the leak started, while others warned bathers downstream — where swimming is prohibited — to stay out of the water.

"We're well trained in the fundamentals of toxic substance clean-up, but there's always something new, so we learn on the job," Dilles said. He opened one door on the emergency response truck to display a well-stocked reference library on toxic chemicals, regulations and clean-ups.

"Another part of our job is collecting waste chemicals from campus laboratories, and safely transferring them to the licensed haulers who take the materials to approved disposal sites," Dilles said.

"We're very conscious of Cornell's responsibility for protecting the surrounding community from spills that may occur on campus," Maycumber said. "And if spills occur anywhere in Tompkins County, we're ready to respond there, too."

—Roger Segelken

University reports hazardous substance storage to planners

The Tompkins County Local Emergency Planning Committee has been notified of the presence at university facilities of six chemicals considered by the U.S. Environmental Protection Agency to be extremely hazardous substances.

Hazardous substances maintained in amounts over threshold planning quantities must be reported to local emergency officials. Lists from Cornell and 11 other facilities in the county are now a matter of public record.

On the list reported Oct. 15 by the university are:

- Chlorine, a liquid used to treat drinking water.
- Anhydrous ammonia, a gas used to fertilize soil.

- Phosphorus pentoxide, a powder used in research experiments.

- Hydrogen fluoride, a liquid in the form of hydrofluoric acid, used to clean metal.

- Formaldehyde, a liquid used to preserve biological specimens.

- Sulfuric acid, a liquid used for adjustment of alkalinity.

The law requires chemical users to report any of 366 materials on the EPA's Extremely Hazardous Substance List — but only if the amount exceeds the "threshold planning quantity" for each, explained Robin Goodloe, of

the Cornell Office of Environmental Health. "For example, the threshold for formaldehyde is 500 pounds, and we have about 550 pounds in one location," she said. "The threshold for others, such as phosphorus pentoxide, is much lower — 10 pounds — and our total in two locations is slightly more than that."

"All the hazardous substances are stored in government-prescribed conditions," Goodloe said. "Life Safety's hazardous materials team is prepared to deal with them if they are ever released, and now off-campus emergency officials know their whereabouts, too."

—Roger Segelken

Monosoff to perform Biber's 15 'Mystery Sonatas'

Music Professor Sonya Monosoff will perform an unusual work of 15 violin sonatas that require different fingerings and tunings of the violin.

Accompanied by harpsichordist Joyce Lindorff, Monosoff will play Heinrich Biber's "Mystery Sonatas" on Nov. 12 at 7:30 p.m. in Barnes Hall in the final concert of Cornell's Festival of Czech Culture.

Biber was an adventurous and experimental composer and he composed his piece for an unusual tuning, known as scordatura, to develop different resonances and chords, Lindorff said.

Instead of tuning between each piece, Monosoff has borrowed 11 violins from friends, students and a dealer.

Each piece has three movements and is about five minutes in duration, and the complete series presents a chronicle of the life of Christ, said Lindorff, a member of the Cornell music faculty and a Mellon Post-doctoral Fellow.

But this is not story music: Each sonata

has a distinctive affect, expressing the mood or feeling of the story.

In the original manuscript, dated 1676, each sonata is identified by a copper engraving depicting one of the "mysteries" of the Rosary, including "The Annunciation," "The Birth of Christ," "Christ on the Mount of Olives," "Ascension to Heaven" and "The Coronation of the Virgin."

"The sonatas are unusual because they combine the secular Baroque dance music of the period with religious music, so you find allemande, courante, sarabande and gigue dance movements together with profound and contemplative music," Lindorff said.

Monosoff re-discovered Biber's "Mystery Sonatas" and made the first recording of them in the 1960s. This performance will be recorded and videotaped.

Durwood Crocker is completing a two-rank, Baroque-style organ for the Music Department, and Lindorff hopes to use it in the concert.

Another concert of the Czech Culture Festival will be given on Nov. 11 at 8:15 p.m. in Barnes Hall, featuring the Pro Arte Quartet performing works by Leos Janacek, Karel Husa and Bedrich Smetana.

Founded in 1912 as the Court Quartet to Queen Elizabeth of Belgium, the quartet became the representative of France 11 years later. At the outbreak of World War II, the quartet became stranded in this country and accepted residency at the University of Wisconsin-Madison.

The current members — director and violinist Norman Paulu, violinist Jae Kim, violist Richard Blum and cellist Parry Karp — are American-born. They teach and perform together and independently in the United States, Canada and Europe.

Fortepianist Malcolm Bilson and four members of the Toronto-based Tafelmusik Orchestra will give a concert on Nov. 15 at 8:15 p.m. in Barnes Hall.

They will perform Mozart's Flute Quartet in C Major, Sonata for Piano Solo in A

Minor and the Piano Quartet in G Minor and Haydn's Trio for Flute, Piano and Cello.

Tafelmusik (banquet music), founded in 1979, is Canada's pre-eminent baroque orchestra on original instruments and has achieved international recognition and critical acclaim in this very short time.

In addition to maintaining an extensive recording schedule, Tafelmusik tours Canada, the United States, Latin America and Europe.

Appearing at this performance, besides Bilson, are first violinist Jean Lamon, violinist Stephen Marvin, cellist Christina Mahler and flutist Elissa Poole.

Bilson, who has given concerts this year in Italy, Austria and Switzerland, has just finished recording the complete Mozart piano concertos with J.E. Gardiner and the English Baroque Soloists for Deutsche Grammophon. He is the Tafelmusik's guest artist for their northeastern American tour this fall.

CALENDAR continued from page 7

Plant Biology

"Biology, Phylogenetic Relationships and Genetic Diversity of *Phragmipedium*, a Neotropical Genus of Slipper Orchids (Cypripedioideae; Orchidaceae)," Lucille McCook, Bailey Hortorium, Nov. 11, 11:15 a.m., 404 Plant Science Bldg.

Plant Breeding

Title to be announced, Brett Callaway, plant breeding, Nov. 15, 12:20 p.m., 135 Emerson Hall.

Pomology/Vegetable Crops

"Interactions Among Soil Applied P-Zn-B In 'Earliglow' Strawberries," Geoffrey May, graduate student, pomology, Nov. 10, 4:30 p.m., 404 Plant Science Bldg.

Poultry Biology

"Induction of Glutathione and Glutathione S-Transferase in Selenium Deficient Chicks," Young S. Kim, poultry and avian science, Nov. 10, 4:30 p.m., 300 Rice Hall.

Rural Sociology

"Socioeconomic Aspects of Agriculture Biotechnology: Neglected Issues and Implications for Public Policy," Frederick H. Buttel, rural sociology, Nov. 11, 12:15 p.m., 32 Warren Hall.

Science, Technology & Society

"Science During the Reagan Years," Daniel Schorr, National Public Radio, Nov. 14, 12:15 p.m., 609 Clark Hall.

Society for the Humanities

"Psychoanalysis at the Seraglio (Clerambault's Photographs of Moroccan Women)," Joan Copjec, editor of "October," Nov. 10, 4:30 p.m., Guerlac Room, A.D. White House.

Sociology

"A Tale of Two Cities Exploring Cultural Capital in Paris and Indianapolis," Michele Lamont, Princeton University, Nov. 11, 3:30 p.m., 302 Uris Hall.

Statistics

"Faculty Inspection in Dorfman-Like Group Testing Procedures and Estimation of Inspection Errors," Samuel Kotz, management science and statistics, University of Maryland, Nov. 16, 3:30 p.m., 100 Caldwell.

Textiles & Apparel

"Synthesis of New Polymers for High Performance Imaging," Jean Frechet, chemistry, Nov. 15, 12:20 p.m., 317 Martha Van Rensselaer Hall.

Theoretical & Applied Mechanics

"The Coupling of Boundary & Finite Element Method," George Hsiao, University of Delaware, Nov. 16, 4:30 p.m., 205 Thurston.

Western Societies Program

"Federalism, Pluralism and the Canadian Political Community," Hugh Thorburn, Queen's University, Nov. 10, 4:30 p.m., G08 Uris Hall.

"Nation-States in the Contemporary World Economy: Analyzing Capitalism as a Global

System," Hugo Radice, Leeds University, Nov. 11, 12:15 p.m., 153 Uris Hall.

"The State of the State in Western Europe," James Sharpe, Nuffield College, Oxford, Nov. 16, 4:30 p.m., G08 Uris Hall.

SPORTS

Friday, 11/11

Volleyball, Ivy Championships at Princeton
Freshman Football, at Columbia, 7 p.m.

Saturday, 11/12

Men's Cross Country, IC4As at New Canaan, Conn.
Women's Cross Country, ECAC Championships at New Canaan, Conn.
Varsity Football, at Columbia, 1 p.m.

SYMPOSLA

Chemical Engineering

"Social Impact of Chemical Engineering," celebrating the 50th anniversary of the School of Chemical Engineering, Nov. 11, 9:45 a.m., 155 Olin Hall. Topics and speakers include: "Chemical Engineering: Past, Present and Future," Neal Amundson, University of Houston; "Chemical Engineering Research Opportunities in Electronic and Photonic Device Manufacturing," Larry Thompson, AT&T Bell Labs.; "Trends and Processes," Herbert D. Doan, Dow Chemical Co.; "Chemical Engineering in Today's Economy: The Viewpoint of an Industrial Manager," Samuel Bodman, Cabot Corp. The symposium also will feature a discussion on "The Image of the Chemical Engineer." Julian Smith will moderate a panel consisting of Richard Greene, associate editor of Chemical Engineering magazine; Marjorie Leigh Hart, strategic development adviser for Fuel Tech Inc.; and Edward McDowell, president-elect of the American Institute of Chemical Engineers.

Council of the Creative & Performing Arts

Festival of Czech Culture, "The Baroque and the Contemporary in Czech Art, Music, Literature," Nov. 12, 9:30 a.m. to 5 p.m. All events will be held in Kaufmann Auditorium, Goldwin Smith Hall.

"Music in Terezin," Joza Karas, violinist, 9:30 a.m.; "Children's Art in Terezin," Elena Makarova, writer, Moscow, 10:30 a.m.; reading in translation by George Gibian, Russian literature, poems and reminiscences by Nobel prize-winning poet Jaroslav Seifer on World War II and the fate of the Jews, 11:30 a.m.;

"The Unbearable Lightness of Building," Christian F. Otto, architecture, 3 p.m.; William Harkins, Columbia, on Czech Baroque literature, 4 p.m.

(See exhibit and music listings for other festival events)

Law Review

"The Regulation of Secondary Trading Markets: Program Trading, Volatility, Portfolio Insurance and the Role of Specialists and Market Makers," Nov. 12, Sneec Hall, 8:30 a.m. to 5:15 p.m.

"Restrictions on Short Sales: An Analysis of the Uptick Rule and its Role In View of the October 1987 Stock Market Crash," Jonathan R. Macey, Cornell Law School; Mark Mitchell and Jeffrey M. Netter, United States Securities and Exchange Commission; "Harmonizing Margins: The Regulation of Margin Levels in Stock Index Futures Markets," Dean Furbush, United States Securities and Exchange Commission, Annette Poulsen, University of Georgia School of Business; "The Fraud-on-the-Market Theory and the October 1987 Market Crash," Daniel R. Fischel, University of Chicago Law School; "The Dangers of Regulatory Overreaction to the October 1987 Crash," Lawrence Harris, University of Southern California, and U.S. S.E.C.; "The Swiftens of Divine Retribution, and its tendency to Mistake its Target: An Analysis of the Brady Report," David D. Haddock, Northwestern University School of Law.

Commentators will include Mike Barkley, Cliff Holderness and Clifford W. Smith Jr., Graduate School of Business Administration, University of Rochester; Kenneth Lehn, United States Securities and Exchange Commission; Fred S. McChesney, Emory University School of Law; Dale A. Oesterle, Cornell Law School; Roberta Ramano, Yale Law School.

THEATER

"Ain't No Use Goin' Home, Jodie's Got Your Gal and Gone - Sayings from The Life and Writings of Junebug Jabbo Jones - Volume III," starring John O'Neal, Nov. 17-19, 30 and Dec. 1-3 at 8 p.m., Black Box Theatre, Center for the Performing Arts, 430 College Ave. (Please note that the play has been postponed from the previously printed schedule.) For more information call 254-ARTS.

MISC.

Alcoholics Anonymous

Meetings, open to the public, will be held Monday through Friday, 12:15 p.m. and Thursday evenings, 9:30 p.m., in Anabel Taylor Hall. For more information, call: 273-1541.

Cornell Badminton Club

Meetings will be held Wednesdays 4:30-6:30 p.m.; Fridays 7:30-9:30 p.m.; Saturdays 11 a.m.-1 p.m. at the Henry St. John gym, located at the Clinton and Geneva streets. For more information call David Sagan 255-0918 or Bill Smith 2272-3594.

CUSLAR Discussion Group

"The Debt Crisis in Mexico: Household Responses and Women's Work," Lourdes Beneria, city and regional planning, Nov. 14, 7 p.m., Commons Coffeehouse, Anabel Taylor Hall.

Department of Art

Printmaking workshop on color etching, Swietlan N. Kraczyna, head, color etching, International School for Advanced Printmaking, Florence, Italy, Nov. 10, 2 p.m., Printmaking Studio, Olive Tjaden Hall, and Nov. 11, 10 a.m., Printmaking Studio, Olive Tjaden Hall.

E.A.R.S.

Empathy Assistance Referral Service provides trained peer counseling. Call 255-EARS Sunday-Thursday, 3-11 p.m., or walk-in 211 Willard Straight Hall, Friday and Saturday, 6-10 p.m. All services are free, non-judgmental and confidential.

Gay Men's Association

The Gay Men's Association holds a discussion meeting each Wednesday from 7:15 to approx. 9:30 p.m. in Loft II, Willard Straight Hall. Discussion topics include: coming out to parents and people on the job, friendships with heterosexual men, gay parenting, long-term relationships, safe sex, and being gay and religious. For further information, call the Gay, Lesbian and Bisexual Coalition office at 255-6482.

Hebrew Speaking Club

Hebrew Speaking Club meets Tuesdays, 8:15-9:30 p.m., in G-34 Anabel Taylor Hall.

Hillel

Meeting of Students Struggle for Oppressed Jewry, Nov. 10, 5 p.m., G-34 Anabel Taylor Hall.

Topics of Jewish Thought and History: "Anti-Semitism and the Holocaust," Nov. 14, 8 p.m., 314 Anabel Taylor Hall.

Israel shaliach, Nov. 15, 10 a.m. to 3 p.m. at the Hillel office, G-34 Anabel Taylor Hall. Call 255-4227 for appointment.

Vietnam Era Veterans

A fall gathering for Vietnam Era veterans will be held Nov. 15, 2:30 to 5 p.m., in the Founders Room, Anabel Taylor Hall. Sponsored by the Associate Vice President for Human Relations, the Senior Vice President and the Office of Equal Opportunity. Call 255-3976 by Nov. 11 for reservations.

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. and Sunday 2-8 p.m., 174 Rockefeller Hall; Sunday-Thursday, 10 p.m.-midnight, 340 Goldwin Smith; Sunday-Thursday, 8-11 p.m., Noyes Center, Browsing Library; and Sunday-Thursday, 8-11 p.m., Clara Dickson Hall, Computer Room.

Job Opportunities

November 10, 1988
Number 43
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.

-THANKSGIVING HOLIDAY SCHEDULE: Requisitions received after noon Thursday, November 10, through noon on Wednesday, November 23, will be posted December 1, due to the Thanksgiving Holiday (no Chronicle Thanksgiving, Thursday November 24).
THE HIRING FREEZE WILL BE DECEMBER 1, 1988 THROUGH JANUARY 2, 1989.

-Interviews are conducted by appointment only.

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

-Employment & employee transfer application 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. Terminals are situated in main lobbies of Day Hall & Gannett Clinic, & the Olin, Mann & ILR Libraries.

-DEPT'S.-Deadline for submission is noon on Thursday for following week's Job Opportunities.

-Minimum salaries listed are for recruitment purposes only.

-S=Statutory, E=Endowed

Administrative and Professional

SR. TECHNICAL CONSULTANT (PT4306) Academic Computing-E

Provide advanced-level computer consultation & teaching svcs. for mainframe & microcomputer users; help users select approp. software & configure systems; design, implement & refine uses of applications software to meet specific & complex user requirements; evaluate software; design & teach workshops; write tech. documentation. Assist in formulation of CCS policy for computing applications. Coord. support activities w/CCS tech. staff & mgmt., college-level computing support coordinators, faculty, staff & administrators.

Req.: BS or equiv. w/coursework in computing or related field. 5-6 yrs. computer systems or prgrmg. exp. w/considerable expertise using variety of hardware & software systems & peripherals, 2-3 yrs. teaching exp. In-depth knowl. of micro & mainframe hardware, software & networks. Hardware systems should incl. IBM, VAX, IBM-PC & Mac architectures. Software should incl. operating systems for supported machines & applications software incl. database systems, spreadsheets & WP. Fluent in variety of communications & file transfer applications. Letter & resume to Judi Baker by 11/25.

TECHNICAL CONSULTANT III (PT4316) Theory Center-E

Provide full range of consulting svcs. to researchers using resources of CNSF.

Req.: BS (grad. study in computer sci. or 1 of phy./bio./enrg. sci.). 3-5 yrs. related exp. Exp. w/mainframe computers essential, w/VM/CMS & array processors desir. Fluency in at least 2 prgrmg. lang. Demonstrated ability to work w/complicated programs. Strong written & interper. skills. Letter & resume to Judi Baker by 11/25.

STAFF AUDITOR (PA4301) Audit Office-E

Resp. for following specified audit programs & performing analytical & computational procedures during course of financial & operational audits.

Req.: BS in busn. mgmt. or acctg.; MBA a plus, active progression towards CPA req. 2-3 yrs. related busn. exp. pref. Familiar w/Lotus 123 & Wordperfect desir. Letter & resume to Cynthia Smithbower by 11/18.

RESEARCH SUPPORT SPEC. II (PT4115) Materials Sci. & Engr.-E

Oversee govt. contract research incl., proposal/budget prep. Design, set-up & analyze research projects; write & publish papers & conduct presentations.

Req.: BS in Mat. Sci., Mech. Engr. or equiv. 2-3 yrs. exp. in mech. lab. Demonstrated supv. & org. skills. Letter & resume to Judi Baker by 11/18.

PROJECT COORD. II (PA4302) Maintenance Mgmt.-E

Serve as liaison between Univ. depts. & M&SO on bldg. maint. matters. Identify bldg. operation problems & project scope. Schedule & coord. maint. & rehabilitation projects; inspect construction.

Req.: AAS in engr. or construction tech. req. BS pref. Strong tech. bkgnd. in bldg. maint. w/min. 4 yrs. exp. in construction & maint. mgmt. Letter & resume to Cynthia Smithbower by 11/18.

EXEC. STAFF ASST. (PC4317) Dean's Office-Arts & Sci.-E

Asst. Admin. Mgr. in Admin. of academic personnel matters for college.

Req.: BA or equiv. Min. 2 yrs. related exp. Special knowl. highly desir. regarding CU academic appts. Knowl. of computer databases. Letter & resume to Esther Smith by 11/16.

FACILITY DIRECTOR (PT3517) Biotechnology-E

Resp. for operation of Biotech. Computer Facility consisting of 3 graphics work stations using UNIX operating system, various microvax configurations. Admin. resp. incl. budgeting, user fee scheduling, etc.

Req.: BS computer sci., engr., physical sci. or bio. sci. Advanced degree pref. 5-7 yrs. mgmt. incl. mainframe, networking (eg. Ethernet), optics & computer graphics. Letter & resume to Judi Baker ASAP.

Clerical

REGULAR EMPLOYEES Submit employee transfer application, resume & cover letter. Career counseling interviews available by appt. **EXTERNAL APPLICANTS** Mail employment application & resume to 160 Day Hall. Interviews conducted at Staffing Services, East Hill Plaza by appt. only. Qualified applicants are contacted after materials are reviewed.

STACKS ASST., GR16 (C4313, C4319) Olin Library-E

Resp. for shelving large volume of materials; process incoming serials daily & enforce libr. policies on assigned floor; staff security desks on regular assigned basis; open & close bldg. on assigned days.

Req.: H.S. dip. or equiv. Some college bkgnd. Able to work independ. w/min. supv. Strong org. & interper. skills. Able to work well w/sudden increases of activity at exit/entrance points. Lt. typing. Min. Biweekly: \$448.50

CRT OPERATOR, GR17 (C4323) Animal Sci.-S

Resp. for data entry & verifying work using cathode ray tubes; in time employee must be entering at least 562 cow units & verifying at least 671 cow units per productive work hour. Mon., Tues., 7-4; Wed., 7:30-4; Thurs. 8:30-4; Fri., 7-2:30.

Req.: H.S. dip. or equiv. Min. 6 months exp. pref. In lieu of CRT exp. -keypunch exp. helpful. Lt. typing. Min. Biweekly: \$467.98

OFFICE ASST., GR18 (C4318) Vet. Med. Teaching Hospital-S

Schedule appts., take messages, page doctors, using good judgment for emergencies & dispensing gen'l. info. to public. Small Animal Clinic phone reception. Mon., Tues., Thurs., Fri., 8 a.m.-6 p.m.; Sat., 8-12 noon. Some holidays.

Req.: H.S. dip. or equiv. Min. 1 yr. related exp. Med. Term. helpful. Familiar w/computers. Exc. phone techniques. Min. Biweekly: \$487.50

SR. RECORDS ASST., GR18 (C4320) Olin Library-E

Locate & retrieve in-process RUSH requested material; process added copies & added locations; receive/process CU Dissertations; resp. for pre-catalog searching & mgmt. of cataloging backlog; provide sec./admin. support for 2 depts. (Catalog Mgmt. & Cataloging, etc.).

Req.: H.S. dip. or equiv. Addit'l. college or equiv. exp. pref. Min. 1 yr. related exp. Some familiarity w/foreign lang. helpful. Previous libr. tech. svcs. exp. desir. Some exp. with PC/Wordperfect program. Working knowl. of RLLN/NOTIS systems & US MARC formats. Good interper. skills. Med. typing. Min. Biweekly: \$487.50

SECRETARY, GR18 (C4324) Economics-E

Provide full complement of clerical/sec. support for 3-5 dept. faculty. Prep. & maintain file for all research manuscripts, course work & corresp.

Req.: H.S. dip. or equiv. Min. 1 yr. related exp. WP. IBM AT or compatible w/Wordperfect 4.2/5.0. Tech. typing. exp. nec. Heavy typing. Min. Biweekly: \$487.50

SECRETARY, GR18 (C4312) Materials Sci. & Engr.-E

Provide sec. support to faculty & research groups, i.e., WP; tech. typing of manuscripts, abstracts, etc.; phone; mail.

Req.: H.S. dip. or equiv. Sec. trng. pref. Min. 1 yr. related exp., CU desir. Strong interper. & comm. skills. Familiar w/software pkgs. & tech. typing. pref. Med. typing. Min. Biweekly: \$487.50

ACCTS. ASST., GR18 (C4310) Controller's/Accounting-E

Provide assistance in maintaining acctg. records & generating payments. Resp. for financial data entry into acctg. system & accurate inputting of large, continuous vol. of data from variety of input forms.

Req.: H.S. dip. or equiv. Data entry cert. highly desir. Exp. w/CU acctg. procedures pref. Able to work well w/variety of individuals. Attention to detail, work accurately while meeting a variety of deadlines. Min. 1 yr. data entry exp. Heavy typing. Min. Biweekly: \$487.50

PERSONNEL ASST., GR19 (C4321) Olin Library-E

Provide support in admin. of endowed personnel activities for CU Libr. System primarily in areas of recruitment, payroll & gen'l. offc. admin. Manage conf. personnel files; maintain automated personnel records system; process personnel-related forms; assist w/payroll; serve as initial contact for visitors & staff.

Req.: AAS or equiv. Min. 2 yrs. related exp. Previous offc. & microcomputer, especially WP exp. Able to handle confidential material w/discretion, set priorities & work in a complex, active environ. Strong org., comm. (written/verbal) & interper. skills. Familiar w/database mgmt. helpful. Heavy typing. Min. Biweekly: \$510.90

RECEPTIONIST, GR19 (C4308) Graduate School-E

Entries on CRT; process forms related to grad. student records; answer phones & walk-in inquiries from students, faculty & other offices; assist in course enrollment & at reception desk; hand out & receive forms; process application letters.

Req.: AAS or equiv. Min. 2 yrs. related exp. Knowl. of college structure. Able to work/org. independ. Comm. skills important. Familiar w/Wordperfect & dBase desir. CRT exp. a plus. Med. typing. Min. Biweekly: \$510.90

ADMIN. AIDE, GR19 (C4306) Vet. Research Admin.-S

Provide sec. support for Assoc. Dean for Research & 2 Grant & Contract Coord. Assist faculty in applying for research grants; assist in coordinating in-house grant programs; schedule mtgs. & maintain calendar; compose & type cor-

resp.; maintain grant computer database; transcribe from dictaphone; file; copy; type & route mail.

Req.: H.S. dip. or equiv. AAS or equiv. pref. Min. 2 yrs. sec./clerical exp. Exc. comm. skills. Exp. w/Wordperfect req.; dBase III Plus highly desir. Good org. & writing skills. Med. typing. Min. Biweekly: \$510.90

ADMIN. ASST., GR21 (C4315) Univ. Press-E

Under gen'l. supv. & guidelines, & at dir. of Warehouse Mgr., provide admin. asst. Supv. Press warehouse 2nd shift; org. & distribute daily workloads & insure timeliness as employees receive stock & ship book orders. M-F, 12:30 p.m.-9 p.m.

Req.: H.S. dip. or equiv. Min. 2 yrs. coord. or work-related equiv. exp. Prior exp. working in publishing warehouse environ. helpful. Strong comm., org. & interper. skills. Some supv. skills. Min. Biweekly: \$557.70

PERSONNEL ASST., GR21 (C4316) Finance & Business Svcs.-S

Perform counseling, acctg. & clerical functions in Optional Retirement Plan (ORP) & Tax-Deferred Plans.

Req.: AAS &/or equiv.; min. 2 yrs. employee benefits exp., pref. CU. Good org., interper. & comm. skills. Math aptitude. Familiar w/computers & acctg. procedures desir. Exc. (oral/written) comm., phone & public relations skills. Lt. typing. Min. Biweekly: \$557.70

ADMINISTRATIVE AIDE, GR21 (C0203) Internat'l. Agriculture Program

Provide admin./sec. support to Dir. & Assoc. Dir.

Req.: AAS or equiv. Min. 2-3 yrs. related trng./exp. Familiar w/computer programs. Able to communicate effectively (oral/written). Exc. interper. skills. Strong org. skills. Confidentiality essential; French or Spanish desir. Some internat'l. exp. pref. Able to set priorities & work independ. in complex, active environ. Heavy typing. Min. Biweekly: \$557.70

General Service

REGULAR EMPLOYEES

Submit employee transfer application to Staffing Services, 160 Day Hall. Interviews conducted by appt. only. **EXTERNAL APPLICANTS** Mail employment application to Staffing Services, 160 Day Hall. Interviews conducted by appt. only. Qualified applicants are contacted after materials are reviewed.

FOOD SERVICE WORKER, SO01 (G4301, G4303, G4304) Dining-E

Set-up, display & serve food &/or beverage. Check Co-op dining cards for validity & make sale transactions by cash or credit card. Shift subject to change.

Req.: H.S. dip. or equiv. Knowl. of food prep. & presentation pref. Good customer relation skills. Basic reading & computation skills req. Min. hourly: \$5.50

MAITRE'D, GR20 (C4304) Statler Hotel-E

Help Banet's Mgr. schedule, coord. & manage waitstaff to insure that proper etiquette & svcs. is maintained. Hrs. flex.; some evs. & wknds.

Req.: H.S. dip. or equiv.; AAS in restaurant mgmt. pref. Min. 3 yrs. in similar position req. Must be familiar w/all types of svcs. Letter & resume to Esther Smith. Min. Biweekly: \$534.30

HOUSEKEEPING SUPV., GR20 (C4303) Statler Hotel-E

Assist Exec. Housekeeper w/supv. of all housekeeping staff. Oversee cleaning guestrooms, public spaces, admin. offcs. & back-of-the-house areas of hotel. Resp. for daily inspection of all guestrooms. Hrs. flex.; some evs. & wknds.

Req.: H.S. dip. or equiv.; basic reading & writing skills. Min. 3 yrs. exp. pref. in hotel's housekeeping dept. Supv. exp. pref. Letter & resume to Esther Smith. Min. Biweekly: \$534.30

FOOD SERVICE WORKER, SO02 (G4305-G4308) Dining-E

Prepare, present & serve food items for Co-op, cash, catering or special events. Shift subject to change.

Req.: H.S. dip. or equiv. 1 yr. related exp. Working knowl. of food prep. & presentation. Able to operate choppers, slicers, mixers, ovens, steam kettles, pressure steamers & various hand tools. Good customer relation skills. Min. hourly: \$5.75

DISH MACHINE OPERATOR, SO02 (G4309-G4312) Dining-E

Wash dishes, utensils, pots & pans. Stock assigned areas. Shift subject to change.

Req.: H.S. dip. or equiv. Able to learn proper use of dishwashing equip. & cleaning agents. Able to lift 35 lbs. Min. hourly: \$5.75

CUSTODIAN, SO02 (G4316) Buildings Care-E

Provide gen'l. custodial care of bldgs. & grounds in immediate vicinity of assigned area. Mon.-Thurs., 6 a.m.-2:30 p.m.; Fri. 6 a.m.-1:30 p.m.

Req.: H.S. dip. or equiv. Able to operate a variety of heavy power equip., lift 50 lbs. & climb an 8 ft. ladder. Basic reading & writing skills. Min. hourly: \$5.75

ANIMAL ATTENDANT, SO04 (T4313) Vet. Medical Teaching Hosp.-S

Routine barn chores, keep all areas clean, groom animals, clean, disinfect stalls after patient discharges. Assist students & clinicians when needed. 39 hrs./wk. Wknds. & some holidays req.

Req.: H.S. dip. or equiv. 2-3 yrs. exp. handling large animals, milking exp. req. NYS driver's lic. Apply by 11/25. Min. hourly: \$6.25

SHORT ORDER COOK, SO04 (G4313, G4314) Dining-E

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 w/short order equip. Able to prepare variety of short preparation foods under

pressure. Good customer relations skills. Min. hourly: \$6.25

HEAD CUSTODIAN, SO04 (G4315) Building Care-E

Participate in, direct, supv. & evaluate work of 7-10 cust. in assigned area (50% cleaning/50% supv.). Provide general cust. care of bldgs. & grounds in assigned area; ensure timely opening of assigned bldgs.; order & account for in-house supply inventories. Mon.-Thurs., 6 a.m.-2:30 p.m.; Fri., 6 a.m.-1:30 p.m.

Req.: H.S. dip. or equiv. 2 yrs. cust. exp. req., supv. exp. pref. Able to lift 50 lbs. & climb 8 ft. ladder. Min. hourly: \$6.25

DISPATCHER II, SO04 (G4322) M&SO Customer Service-E

Serve as primary link between campus community & M&SO for maint. requests. Issue job tickets utilizing mainframe terminal. Dispatch tradespersons & assistants via radio comm. system. Mon.-Fri., 7:30 a.m.-4:00 p.m.

Req.: H.S. dip. or equiv. Med. typing. Exc. interper./phone skills. Able to work under pressure w/careful attention to details. Exp. with computers & radio comm. helpful. Trng. or exp. in public relations, sales or svcs. pref. Min. hourly: \$6.25

GROUNDWORKER, SO04 (T4310) Hotel Admin.-E

Care & maint. of grounds & bldg. exterior. Limited interior work of non-tech. nature.

Req.: H.S. dip. pref. Bkgnd. in groundswork desir. Able to operate powered lawn care & snow removal equip. Must possess valid NYS driver's lic. Min. hourly: \$6.25

VEHICLE MECHANIC, SO06 (G4320) CU Transit, Inc.-E

Repair & maint. of heavy equip. Drive bus on campus & charters, 5 days/wk., 11:42 a.m. to 8 p.m.

Req.: H.S. dip. or equiv. Min. 3 yrs. mech. exp. Familiar w/heavy equip., bus driving. Able to pass driver's physical, have or obtain NYS Class II driver's lic. w/in 3 months. Min. hourly: \$6.85

MAINTENANCE MECHANIC, SO09 (G4318, G4319) Hotel Admin.-E

Monitor electrical, plumbing, ventilation, air conditioning & refrigeration. Perform system operation in & about Statler Hall; provide tech. asst. for auditorium & bldg. operations; maintain bldg. operation systems support. Shift may vary.

Req.: H.S. dip. or equiv. Prefer trade school trng. Knowl. of electrical & mech. test equip. req. Min. 5 yrs. exp. in bldg. construction (monitor electrical, plumbing, ventilation, A/C & refrig., carpentry & gen'l. repairs). Min. hourly: \$7.84

Technical

REGULAR EMPLOYEES

Submit employee transfer application, resume & letter. **EXTERNAL APPLICANTS:** Mail employment application, resume, & list of lab techniques/equip., or computer software/hardware with which you are familiar. Submit letter per position, specify title, dept. & job number. Interviews conducted by appt. only. Qualified applicants are contacted after materials are reviewed. Backgrounds highly desired: biochem., chem., microbio., elect., physics, lic. animal health tech.

TECHNICAL ASST., GR16 (T4315) Agronomy-S

Soil, plant & water samples prep. for lab analysis. Perform routine analyses on soil, plant & water samples.

Req.: H.S. dip. or equiv. AAS in chem. or related field pref. or 1-2 yrs. exp. in an analytical lab. Apply by 11/25. Min. Biweekly: \$448.50

TECHNICIAN, GR18 (T4304) Equine Drug Testing-S

Perform routine analysis of horse blood & urine in field lab at Yonkers, NY. 1-10 p.m., 5 days/wk. Sat., Sun. & holidays incl.

Req.: AAS or equiv. Min. 1-2 yrs. exp. w/thin layer chromatography & gen'l. lab procedures. Apply by 11/18. Min. Biweekly: \$487.50

AUDIO VISUAL AIDE, GR19 (T4307) Hotel Admin.-E

Provide complete range of a-v facilities & equip. to faculty. Provide counsel & trng. for faculty, students & staff in effective use of a-v systems for educat'l. purposes. Operate & repair overhead, slide & 16 mm projectors, video & cassette recorders & video cameras.

Req.: H.S. dip. or equiv. req. AAS in comm. or a-v tech. pref. Min. 2 yrs. related exp. Able to org., good interper. skills. Familiar w/PA systems & other audio equip. & cabling of video equip. Apply by 11/25. Min. Biweekly: \$510.90

TECHNICIAN, GR20 (T4314) Clinical Sci.-S

Provide tech. support for researchers in immunological lab. Prep. tissue culture & bacteriological media, buffers & other precisely formulated reagents. Familiar w/handling techniques for cows & common lab animals to extent that milk & blood samples can be obtained.

Req.: BS or equiv. in bio. Min. 2-3 yrs. related exp. in microbio. techniques. Exp. handling lab animals & knowl. of lab procedures. Apply by 11/25. Min. Biweekly: \$534.30

MEDIA TECHNICIAN, GR21 (T4305) Plant Biology-S

Produce videotapes for introductory bio. course. Tape, post taping production, coordinate production w/other professionals, set scenes & lighting, assist in script writing. 1 yr.

Req.: AAS req. BA or equiv. exp. in comm. or bio. sci. desir. 2 yrs. related exp. NYS driver's lic. Org. ability & able to work independ. Min. Biweekly: \$557.70

TECHNICIAN, GR22 (T1509) Plant Pathology-Geneva-S

Assist in conducting research on fungal cell bio. Oversee use & svcs. of equip. (e.g., electron

microscopes).

Req.: BS or MS, bio. or relevant field. Exp. &/or trng. in light, transmission, electron & scanning electron microscope pref. Exp. w/immunochemical techniques, protein purification & separation protocols, as well as w/gen'l. biochem. techniques useful. Must be imaginative, dexterous, neat & accurate. Min. Biweekly: \$581.10

Part Time

FOOD SERVICE WORKER, SO01 (G4302) Dining-E

Set-up, display & serve food &/or beverage. Check Co-op dining cards for validity & make sale transactions by cash or credit card. 30 hrs./wk. Shift subject to change.

Req.: H.S. dip. or equiv. Knowl. of food prep. & presentation pref. Good customer relation skills. Basic reading & computation skills req. Min. hourly: \$5.50

BUILDING ATTENDANT, GR16 (C4314) Olin Library-E

Under dir. of Sr. Evening Supv., perform libr. security functions incl. working at exit control desk & stack control desk. Perform variety of clerical & other duties as assigned. Resp. for opening, closing & making regular tours of bldg. S-Th. 8:30 p.m.-12:30 a.m. 20 hrs./wk.

Req.: H.S. dip. or equiv. Familiar w/libraries desir. Able to work effectively w/variety of people. Lt. typing. Min. full-time equiv.: \$448.50

Temporary

Experienced & skilled individuals specifically interested in temporary work should mail application to 160 Day Hall.

SECRETARY (C4325) Human Service Studies

Type coursework, corresp. & provide gen'l. secretarial support for routine offc. functioning. Distribute mail, run campus errands.

Req.: H.S. dip. or equiv. Heavy typing. Knowl. of Wordperfect essential. Min.

Graduate Bulletin



National Science Foundation (NSF) applications are available at the Fellowships and Financial Aid Office, Sage Graduate Center. Part I deadline is Nov. 14.

Foreign Language and Area Studies Fellowship (FLAS) applications for 1989-90 are available in the Fellowships and Financial Aid Office, Sage Graduate Center. Application deadline in Jan. 20, 1989.

Funds to help with travel expenses are available to registered graduate students invited to present papers or posters at professional conferences and meetings. Applications due at Fellowships and Financial Aid Office, Sage Graduate Center, by Dec. 1 for January conferences (note change in deadline).

Registered doctoral candidates who have completed six units of residence at Cornell, have passed their admission to candidacy examination, and are no longer taking courses are eligible for reduced tuition. Application forms are available at Sage Graduate Center.

Chemical Engineering to mark its 50th year

The School of Chemical Engineering will cap the year-long celebration of its 50th anniversary with a symposium about the social impact of chemical engineering on Nov. 11 in Room 155 of Olin Hall beginning at 9:45 a.m.

The celebration also will feature the dedication on Nov. 12 at 10:30 a.m. of new chemical engineering laboratories, built in Olin Hall as part of the first phase of a \$6.5 million renovation effort.

New laboratories will be named in honor of the school's first director, Fred Hoffman Rhodes, and of alumnus Philip Seaver and Eastman Kodak Co.

"The chemical industry makes innumerable important — not to say vital — products for our society," said Professor Emeritus Julian Smith, former director of the school, who led in organizing the symposium.

"But most people seem to think that chemical plants inevitably pollute the air and water, explode with alarming frequency, ship out corrosive or combustible chemicals in freight cars that derail, and give workers and the surrounding populace

mysterious diseases.

"In view of such a public image, we will explore in this symposium what the social responsibilities of chemical engineers are.

We hope to answer the question of whether future chemical engineers will take far-sighted actions to improve these problems, or whether they will merely react to the increasingly stringent environmental laws."

Topics and speakers for the symposium include:

- "Chemical Engineering: Past, Present and Future," Neal Amundson, University of Houston.

- "Chemical Engineering Research Opportunities in Electronic and Photonic Device Manufacturing," Larry Thompson, AT&T Bell Labs.

- "Trends and Processes," Herbert D. Doan, Dow Chemical Co.

- "Chemical Engineering in Today's Economy: The Viewpoint of an Industrial Manager," Samuel Bodman, Cabot Corp.

The symposium also will feature a discussion on "The Image of the Chemical En-

gineer."

Julian Smith will moderate a panel that will be comprised of Richard Greene, associate editor of Chemical Engineering magazine; Marjorie Leigh Hart, strategic development adviser for Fuel Tech Inc.; and Edward McDowell, president-elect of the American Institute of Chemical Engineers.

An evening banquet will feature as after-dinner speaker L. Pearce Williams, who is the John Stambaugh Professor of the History of Science.

The 50th anniversary events began last March with the inauguration of the Julian C. Smith Lectureship, an annual series that was launched with a lecture by R. Byron Bird of the University of Wisconsin.

Other events included a reunion breakfast last June and the publication of a book, "The School of Chemical Engineering at Cornell: A History of the First Fifty Years." The book, which was written by Smith, was distributed to all chemical engineering alumni.

—Dennis Meredith

Appointments & Promotions

The following academic and administrative appointments and reappointments have been made by President Frank H.T. Rhodes effective July 1, 1988, or as noted.

Robert L. Andersen, professor in the Department of Horticultural Sciences (Geneva), College of Agriculture and Life Sciences, reappointed chairman of the Department of Horticultural Sciences (Geneva), through June 30, 1990.

Benedict R. Anderson, professor in the Department of Government, College of Arts and Sciences and associate director of the Modern Indonesia Project in the Center for International Studies, appointed director of the Modern Indonesia Project in the Center for International Studies, through June 30, 1993.

Leonard Babby, professor in the Department of Near Eastern Studies, College of Arts and Sciences, appointed acting chairman of the Department of Near Eastern Studies, through June 30, 1989.

Sam Beck, senior lecturer and director in the Field & International Study Program, College of Human Ecology, reappointed director of the Field and International Study Program from Sept. 1, 1988, through Aug. 31, 1991;

Ronald A. Breiger, professor in the Department of Sociology, College of Arts and Sciences, appointed chairman of the Department of Sociology, through June 30, 1993.

Vernon M. Briggs Jr., professor in the School of Industrial & Labor Relations, appointed acting director of the Hispanic American Studies Program retroactively, from July 1, 1987, through June 30, 1989.

Robert A. Buhrman, professor in the School of Applied and Engineering Physics, College of Engineering, appointed director of the School of Applied and Engineering Physics, through June 30, 1993.

Joseph A. Burns, professor in the Department of Theoretical and Applied Mechanics, College of Engineering, reappointed chairman of the Department of Theoretical Applied Mechanics, through June 30, 1991.

David A. Caughey, professor in the Sibley School of Mechanical & Aerospace Engineering, College of Engineering, appointed acting director of the Center for Theory and Simulation in Science and Engineering, through June 30, 1989.

Jon C. Clardy, professor in the Department of Chemistry, College of Arts and Sciences, appointed chairman of the Department of Chemistry, through June 30, 1993.

Royal D. Colle, professor in the Department of Communication, College of Agriculture and Life Sciences, reappointed chairman of the Department of Communication, through Sept. 30, 1990.

W. Donald Cooke, professor emeritus in the Department of Chemistry, College of Arts and Sciences, reappointed director of the Occupational Health and Safety Program and chairman of the Health Careers Evaluation Committee, through June 30, 1989.

Harold G. Craighead, professor-elect in the School of Applied and Engineering Physics, College of Engineering, appointed

director of the National Nanofabrication Facility from Jan. 1, 1989, through Dec. 31, 1993.

William E. Drake, professor in the Department of Education, College of Agriculture and Life Sciences, appointed acting chairman of the Department of Education from Sept. 1, 1988, through Jan. 11, 1989.

J. Murray Elliot, professor in the Department of Animal Science, College of Agriculture and Life Sciences, reappointed chairman of the Department of Animal Science, through June 30, 1993.

Paul P. Feeny, professor in the Section of Ecology & Systematics, Division of Biological Sciences, College of Agriculture and Life Sciences, appointed chairman of the Section of Ecology & Systematics, through June 30, 1991.

Sander L. Gilman, the Goldwin Smith Professor of German Literature and Humane Studies in the Department of German Studies, College of Arts and Sciences, appointed director of the Western Societies Program in the Center for International Studies, through June 30, 1990.

Benjamin Ginsberg, professor in the Department of Government, College of Arts and Sciences, appointed director of the Cornell-in-Washington Program and the Cornell Institute for Public Affairs retroactive, through June 30, 1991.

Bryan L. Isacks, professor in the Department of Geological Sciences, College of Engineering, appointed director of the Institute for the Study of the Continents (INSTOC), through June 30, 1991.

Sheila S. Jasanoff, associate professor in the College of Arts & Sciences, appointed director of the Program on Science, Technology and Society, through June 30, 1991.

Michael N. Kazarinoff, associate professor in the Division of Nutritional Sciences, Colleges of Agriculture and Life Sciences and Human Ecology, reappointed acting director of the Division of Nutritional Sciences from June 23, 1988, through July 31, 1988.

Richard A. Ledford, professor in the Department of Food Sciences, College of Agriculture and Life Sciences, reappointed chairman of the Department of Food Science and director of the Institute for Food Science, through June 30, 1990.

Gilbert Levine, professor emeritus in the Department of Agricultural Engineering, College of Agriculture and Life Sciences, appointed acting director of the Center for International Studies from Sept. 1, 1988, through June 30, 1989.

Richard E. McCarty, professor in the Section of Biochemistry, Molecular & Cell Biology, College of Agriculture and Life Sciences, appointed director of the Biotechnology Program, through June 30, 1991.

Sally McConnell-Ginet, professor in the Department of Modern Languages & Linguistics, College of Arts & Sciences, appointed co-director of the Cognitive Studies Program, through June 30, 1989.

Douglas D. McGregor, professor in the Department of Veterinary Microbiology, College of Veterinary Medicine, appointed associate dean for Research in the College

of Veterinary Medicine, through June 30, 1990.

Arnim H. Meyburg, professor in the School of Civil and Environmental Engineering, College of Engineering, appointed director of the School of Civil and Environmental Engineering from Sept. 2, 1988, through June 30, 1991.;

Lucinda A. Noble, professor and director of Cooperative Extension Administration, College of Agriculture and Life Sciences and Human Ecology, reappointed director of Cooperative Extension Administration and reappointed associate dean of the College of Human Ecology, through June 30, 1993.

Jeffrey W. Roberts, professor in the Section of Biochemistry, Molecular & Cell Biology, College of Agriculture and Life Sciences, appointed chairman of the Section of Biochemistry, Molecular & Cell Biology, through June 30, 1991.

Jean R. Robinson, professor in the Department of Consumer Economics & Housing, College of Human Ecology, appointed associate dean of the College of Human Ecology from June 30, 1988, through June 30, 1989.

George A. Schaefer, professor in the Department of Entomology (Geneva), College of Agriculture and Life Sciences, reappointed chairman of the Department of Entomology (Geneva), through June 30, 1991.

Richard E. Schuler, professor in the School of Civil and Environmental Engineering, College of Engineering, and the Department of Economics, College of Arts and Sciences, appointed director of the New York State Solid Waste Combustion Institute, retroactive to July 1, 1987, and through June 30, 1990, as well as director of the Waste Management Institute within the Center for Environmental Research retroactive to Aug. 1, 1987, and through June 30, 1990.

Robert S. Smith, professor in the School of Industrial & Labor Relations, appointed associate dean for Academic Affairs in the School of Industrial & Labor Relations, through January 15, 1990.

James W. Spencer, professor emeritus in the Department of Agricultural Engineering, College of Agriculture and Life Sciences, appointed director of the Occupational Health and Safety Programs from Sept. 6, 1988, through Sept. 5, 1989.

Don F. Splittstoesser, professor in the Department of Food Science and Technology (Geneva), College of Agriculture and Life Sciences, reappointed chairman of the Department of Food Sciences and Technology (Geneva), through June 30, 1989.

George J. Suci, professor in the Department of Human Development and Family Studies, College of Human Ecology, reappointed chairman of the Department of Human Development and Family Studies from Aug. 7, 1989, through Aug. 6, 1990.

Norman T. Uphoff, professor in the Department of Government, College of Arts and Sciences and chairman of the Rural Development Committee in the Center for International Studies, reappointed chairman of the Rural Development Committee and appointed director of the South Asia Pro-

gram in the Center for International Studies, through June 30, 1989.

Helen L. Wardeberg, professor in the Department of Education, College of Agriculture and Life Sciences, appointed acting chairperson of the Department of Education from Jan. 12, 1989, through Feb. 28, 1989.

Gregory A. Weiland, associate professor in the Department of Pharmacology, College of Veterinary Medicine, appointed acting chairman of the Department of Pharmacology, through June 1, 1989.

Leonard H. Weinstein, senior scientist at Boyce Thompson Institute and adjunct professor in the Department of Natural Resources, College of Agriculture and Life Sciences, appointed director of the Ecosystems Research Center in the Center for Environmental Research from Sept. 1, 1988, through June 30, 1991.

Kenneth E. Wing, associate dean of the College of Agriculture and Life Sciences, appointed chairman of the Advisory Board for Cornell Plantations for three years, effective Oct. 1, 1988.

Edward D. Wolf, professor in the School of Electrical Engineering, College of Engineering, reappointed director of the National Nanofabrication Facility, through Dec. 31, 1988.

The following faculty members have been promoted to associate professor or professor effective July 1, 1988, or as noted, by President Frank H.T. Rhodes.

David Blandford, associate professor in the Department of Agricultural Economics, to professor.

Peter S. Chi, associate professor in the Department of Consumer Economics and Housing, to professor.

Jon M. Conrad, associate professor in the Department of Agricultural Economics, to professor.

Cletus E. Daniel, associate professor in the School of Industrial & Labor Relations, to professor.

Barbara L. Finlay, associate professor in the Department of Psychology, College of Arts and Sciences, to professor effective Jan. 1, 1989.

Sheri Lynn Johnson, associate professor in the Cornell Law School, to professor.

Harry C. Katz, promoted to professor in the School of Industrial & Labor Relations.

Richard J. Klein, associate professor in the Department of Romance Studies, College of Arts and Sciences, to professor effective Jan. 1, 1989.

Maureen O'Hara, associate professor in the Johnson Graduate School of Management, to professor effective Jan. 1, 1989.

Marice W. Stith, associate professor in the Department of Music, College of Arts and Sciences, to professor.

Thomas C. Weiler, associate professor in the Department of Floriculture & Ornamental Horticulture, to professor.

Vincent Wright, professor in the Western Societies Program, appointed the Luigi Einaudi Professor of European and International Studies, through Dec. 28, 1988.

Nationwide computer virus infected Cornell, too

The widely reported computer virus that infected computer systems nationwide last week also entered Cornell computers on Nov. 3, but engineers and technicians acted quickly to quash it. The Cornell supercomputers were not affected, and no permanent damage was done.

A computer virus is a program that perpetuates itself from computer to computer, sometimes doing such damage as erasing files. It propagates itself either by "infecting" computer disks that are transferred among computers or by transmitting itself over computer networks.

The virus entered Cornell through the Internet computer network, a national high-speed network connected to some 550 organizations, involving about 60,000 computers of all types. It entered thousands of other university and government laboratory computers across the country the same way. Overall, approximately 100 Cornell computers were affected by the virus.

According to Scott Brim, manager of the networking program for the Theory Center, the virus first became apparent early Thursday morning, when several computers "crashed" for no apparent reason.

When a computer system crashes, its basic operating program ceases to function, and it has to restart itself. According to Brim, the only problems presented by the virus appeared to be the periodic crashes and the slowdown of computer networks on campus because the virus was transmitting multitudes of copies of itself.

The virus infects only Digital Equipment Corp. VAXes running Berkeley UNIX as an

operating system, and Sun Microsystems, Inc. workstations running OS 3 or OS 4 operating systems. The Cornell IBM supercomputers, which do not run UNIX, were not affected. The supercomputers were disconnected from the national networks for only about 30 minutes, while technicians made sure they weren't affected.

When Cornell technicians discovered that the virus was pervasive throughout Cornell, about 9:30 a.m. on Thursday, the system operators immediately disconnected Cornell from Internet and also disconnected all of Cornell's internal networks from one another to halt spread of the virus.

The system operators then began to communicate with one another to eliminate the virus. The solution was to alter the programming of the computers to protect against the virus.

"It was extremely impressive how the various departments of Cornell worked with one another," said Brim. For instance, he said, the electrical engineering department and the Theory Center obtained the program fixes for VAXes from sources outside Cornell, and the Laboratory for Solid State Physics developed program fixes for SUN workstations. Also, the Laboratory for Plasma studies developed program fixes for Ultrix — the DEC version of UNIX — and the computer science department analyzed the behavior of the virus.

By Thursday evening, almost all the Cornell networks had been reconnected with one another.

Specifically, the virus was carried through the electronic mail system that runs

on Berkeley UNIX and its derivatives. It took advantage of weaknesses in the computer code that receives mail to be sent, and also in weaknesses in a small program called Finger Daemon that allows users to find out who is using a computer and where they are on the system. The virus also propagated itself from machine to machine

by taking advantage of a feature called "equivalency" in which machines are defined to be the same for ease of access by various users. The virus also took advantage of a feature in which users could specify themselves to have equal rights to various machines.

—Dennis Meredith

'Virus' investigation *continued from page 1*

were either involved in or aware of the potential virus attack, he said.

He also hopes to determine which Cornell computer policies, if any, were violated in the incident and whether any should be modified to prevent security violations. No timetable has been set for the report.

The university is in contact with federal and state authorities. The FBI is responsible for the federal criminal investigation of the incident. As of yesterday morning, university officials had not yet talked to Morris.

As a routine security measure, the university has closed Morris' computer account. All computer tapes and other relevant materials have been copied, with the originals under strict security.

"Some have characterized the creation of this virus as the work of a folk hero," Barker wrote. "Others have indicated that some positive results may occur as a result of increased attention to computer and network security. Still others have speculated that the damage was an unintended result of what was originally designed to be a benign

experiment. Cornell takes a very different view and thoroughly deplores any actions that disrupt or put at risk computer systems or networks here or elsewhere.

"Such irresponsible behavior violates the most fundamental principles of ethical behavior. Those found in violation of university rules and regulations involving such behavior will be subject to appropriate disciplinary action," Barker wrote.

On Wednesday, the faculty of the computer science department also passed a resolution denouncing the release of the virus:

"Computer scientists are fully aware that computers are easily misused with potentially catastrophic consequences. As such, we have a special duty to exercise and promote the highest sense of responsibility and the most exacting standard of ethical behavior. We insist that the members of the department use all equipment with care and responsibility. We shall do everything possible to prevent a repetition of the deplorable incidents of last week."

—Dennis Meredith

Cook to leave Cornell Plantations

Robert E. Cook, director of Cornell Plantations since 1983, will become director of the Arnold Arboretum at Harvard University early in 1989.

A biologist specializing in plant population ecology, Cook held the positions of associate professor in the Section of Ecology and Systematics and the Elizabeth Newman Wilds Director of Cornell Plantations. He will assume the position of Arnold Professor at Harvard.

The Arnold Arboretum, established in 1872, is the oldest and one of the best-known arboreta in the United States. In addition to the main living collection of shrubs and trees on 265 acres in Boston, the Arnold Arboretum operates a library and a 1.5 million-specimen collection of preserved plants in the Harvard Herbaria at Cambridge, as well as the Case Estates in Weston, Mass.

The Cornell Plantations manages the specialized plant collections of the university's botanical gardens, the F.R. Newman Arboretum, a network of forest trails and natural areas totalling 2,800 acres, as well as research and education programs using the collections.

David L. Call, dean of the College of Agriculture and Life Sciences, which administers Cornell Plantations, said, "Bob Cook made Plantations a vital, living force at Cornell by more than doubling its staff and operating budget, renovating major portions of its collections and initiating several new research programs. His achievements have greatly improved one of the most cherished educational and public service institutions at the university."

Under Cook's directorship, and with support of alumni and friends, the Plantations

has tripled its operating budget from \$700,000 to \$2,200,000 and undertaken extensive renovations of its plant collections and landscapes. Plantations also has coordinated the \$1 million restoration of Beebe Lake and the repair of the Cascadilla Gorge trails.

In collaboration with Cornell educators and local schools, Cook also initiated a curriculum development program called LEAP (LEarning About Plants) which uses plants to teach basic science concepts to elementary school children.

In announcing his departure from Cornell, Cook said, "It will be very difficult for me to leave Plantations; the last five years have been a wonderful experience for me. I leave the organization in excellent hands with an exceptionally dedicated staff."

—Roger Segelken

Barton Blotter

Vandals hit Day Hall

The Department of Public Safety is investigating predawn vandalism on Nov. 4 during which slogans were painted in red on the exteriors of Day Hall, the Campus Store and Goldwin Smith Hall. The slogans stated, "Not with Our \$," and "Share the Wealth."

According to reports, a Public Safety officer spotted four persons dressed in black running between Day Hall and the Campus Store at about 4:45 a.m. but was unable to apprehend them.

Also, according to the morning reports of the Department of Public Safety for Oct. 31 through Nov. 7, four false fire alarms were set off in Cascadilla Hall in three days.

Ten thefts were reported on campus with losses in cash and valuables set at \$787. Four thefts were of parking permits taken from cars.

Alumni, admissions center *continued from page 1*

A commitment to protect the natural area has been affirmed by Cornell administrators, architects and planners in meetings with local officials and is summarized in 11 design criteria given to the project's prize-winning architect, Richard Meier, a Cornell alumnus who is noted for harmonizing his buildings and their natural environments.

Stewart said preliminary conceptual plans were shared recently with city of Ithaca officials concerned with planning and environmental issues. "We are eager to inform community officials about our plans, even at this early stage, and to assure them of the high priority we are placing on the project's environmental compatibility and its enhancement of public spaces and vistas," he added.

He said several campus groups, includ-

ing the Campus Planning Committee and its design-review subcommittee, and the Buildings and Properties Committee of the Board of Trustees, have reviewed preliminary conceptual designs. Additional meetings will be scheduled with the Buildings and Properties Committee. The next step in the process will be to ask the architect to refine his proposals for further consideration by the university.

The center, for which some gift support already has been pledged, will house the university's central admissions office, which now is crowded into a building on Thurston Avenue with virtually no reception space for prospective students and their parents. There also will be space for offices and alumni activities that now take place at scattered sites, and indoor spaces open to

the general public, including areas for viewing the lake and gorge.

Most of the design criteria submitted to the architect concern preserving the natural environment, improving public views, and making the center of a character and scale that will allow it to "reside comfortably with its neighbors" (Balch and Risley halls) and to be "a gentle partner with the landscape."

The guidelines to the architect said the "spectacular site merits a building of equally significant architectural distinction . . . where prospective students will be greeted; visitors will be welcomed; alumni will be embraced; and where the community should be allowed to interact with the falls, stream and gorge."

—Sam Segal

Schorr *continued from page 1*

In his role as CBS chief Watergate correspondent, he earned three television Emmy awards and a place on President Nixon's "enemies list."

The newsman has been pursued and investigated by the KGB while working as a Moscow correspondent and by the FBI when he was a Washington correspondent.

He received civil liberties awards when he refused an order of the House of Representatives, saying, "To betray a source would mean to dry up many future sources for many future reporters. It would mean to betray myself, my career and my life."

Schorr helped create the Cable News Network in 1980 and served as senior correspondent until 1985.

He has traveled extensively with Presidents Carter and Reagan for summit meetings, and now participates in live coverage and specials for PBS, writes for magazines and newspapers, and lectures.

"President Reagan has blurred distinctions between reality and fantasy," Schorr said while preparing the Nordlander Lectures. "He is leaving Americans with the impression that feelings are more important than facts."

"Daniel Schorr is a walking history of controversy in government," said Thomas Eisner, professor of biology and chairman of the faculty committee that administers the Nordlander Visiting Scholar Program.

"He is known for his defense of First Amendment right to freedom of the press and for standing up to government pressures.

"He is an ideal scholar in a program that aims to prepare university graduates for participation in debate on public policy."

—Roger Segelken

New housing *continued from page 1*

expects to get a timetable on the village's review procedure by the end of the year. If things go smoothly, the village could approve the project by next summer and work could begin next fall or spring, he said.

Although the formal process is just beginning, Cornell officials already have met informally with various groups of nearby residents and have discussed their general intentions with village officials. All the land lies within Cayuga Heights except for two acres in the Village of Lansing, Majeroni said.

Once the project is approved, Cornell will sell the land to one or more developers; a separate developer might be chosen, for example, for the retirement part of the proj-

ect. In any case, Cornell's development-review team would carefully screen all prospective developers and their plans before any sale, he said.

The preliminary plan has had the assistance of Sasaki Associates, a Boston consulting firm specializing in land use.

The idea to include housing for retirees came from Cornell's Association of Emeritus Professors, Majeroni said. Their original suggestion for a retirees-only development evolved into the current plan for a diverse community.

Cornell acquired the land in the 1940s and 1950s, and has been using it for agricultural education and to grow hay for Cornell animals. Now that it no longer is being

used for education purposes, it is taxed at the rate of about \$27,000 a year, a figure expected to rise to about \$550,000 when the property is fully developed, Majeroni said.

Besides the 242 housing units, the preliminary plan calls for a community building, a small convenience store, a public park, nature trails and substantial untouched open spaces.

Housing prices will depend on final plans of the developer or developers. Majeroni offered the following rough guidelines, however: free-standing, one-family houses, \$250,000; town houses, \$125,000 to \$175,000; retirement units, \$100,000 to \$125,000.

—Sam Segal