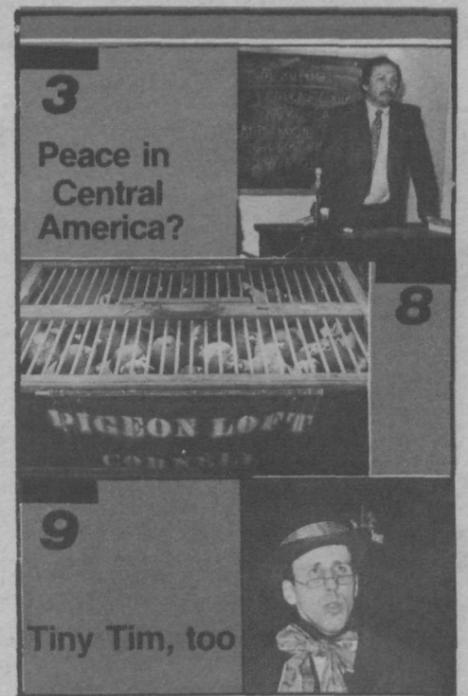


# Cornell CHRONICLE

Volume 18 Number 13 November 20, 1986



## Panel begins to examine campus freedom of speech

A free-speech commission established Oct. 30 by President Frank Rhodes has scheduled public hearings for Dec. 1, 2 and 4 and requested written statements of advice and views from all members of the Cornell community.

The commission has been asked to make its recommendations, which could involve changes in university policy, by March 1.

The written statements should be submitted before the Thanksgiving recess to The Commission on Free Speech, Office of University Faculty, 315 Day Hall.

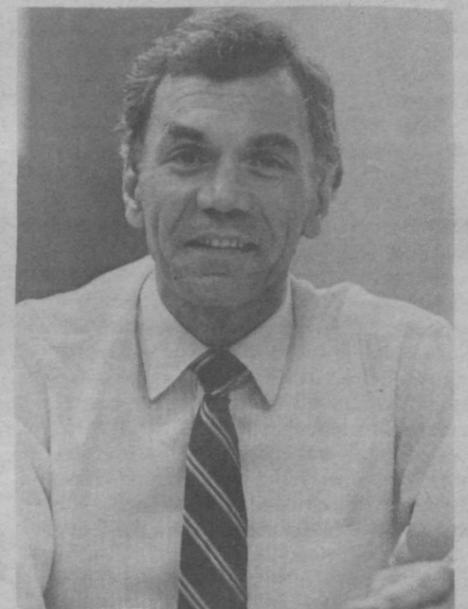
Persons wishing to speak at the first two public hearings to be held in the Moot Court Room of Myron Taylor Hall should contact law professor John J. Barcelo III, commission chair, at 309 Myron Taylor Hall, telephone 255-3604. These two hearings will be restricted to those scheduled to speak. The Dec. 1 hearing will take place between 4:30 and 6:30 p.m. The Dec. 2 hearing will be from 4 to 6 p.m.

The third public hearing, Dec. 4, will be open to comments from anyone in attendance. This hearing is scheduled between 5:15 and 7 p.m. in the Moot Court Room.

"The campus is clearly divided on the issue of what is the proper balance between free-expression rights and campus order," said Barcelo, adding, "Although the commission is broadly representative of the university community, one of our top priorities will be to solicit views and advice from all groups and members of the community."

A major question to be studied, according to Rhodes, is, "Are there limits of decency and self-restraint which permit all of us — however much we disagree with one another — to think and to exchange reasoned thoughts on matters of mutual concern?"

Barcelo said all written and oral comments should be relevant to the president's specific charge to the commission, which is: "To consider whether or not, in light of extant university policies, an additional pol-



John J. Barcelo III

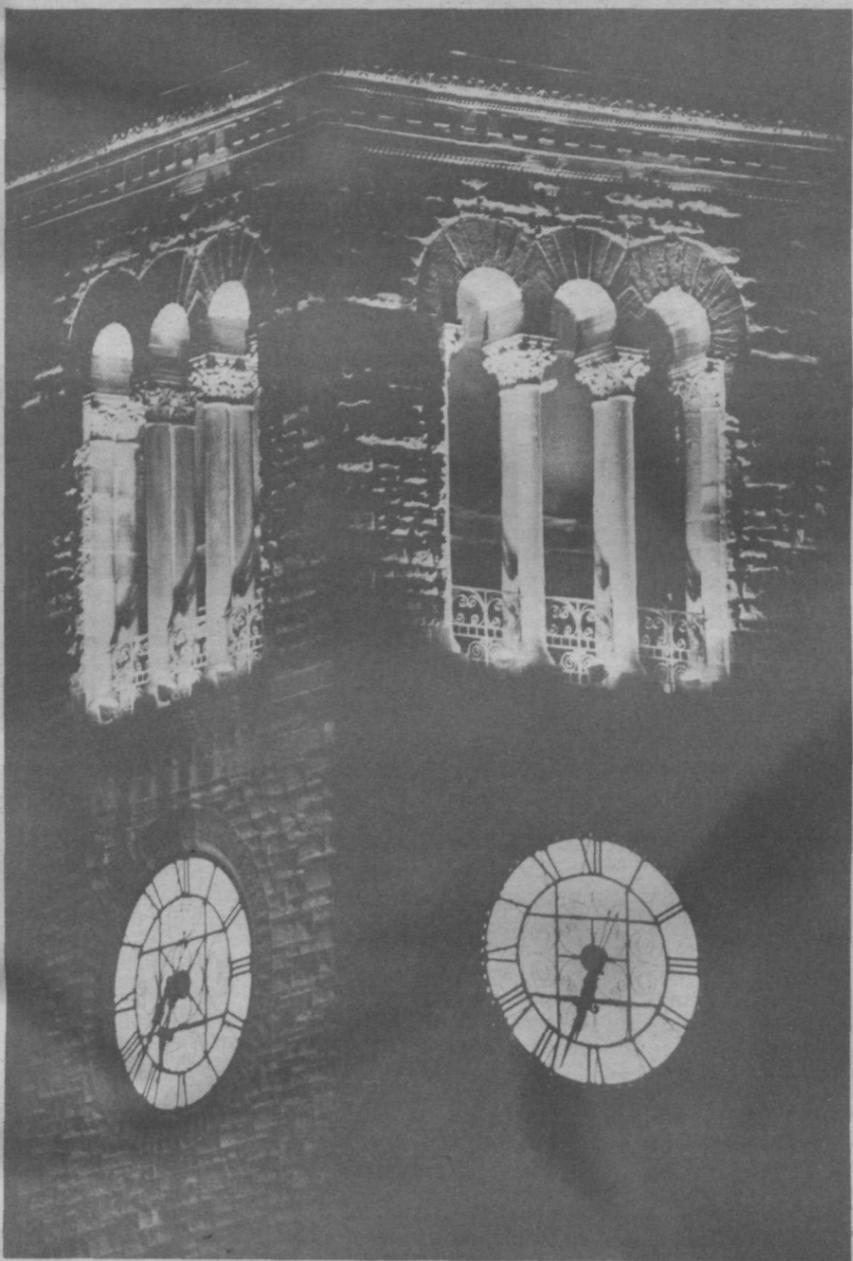
icy statement is needed regarding the responsibilities and rights of members of the campus community in the expression of views on political, social and other matters of common concern.

"To make recommendations on the possible need for additional guidelines regarding the conduct of members of the campus community when assembled together for the purpose of making such views known to fellow members of the community. Such recommendations should include:

a) conduct in relation to: meetings of the University Assemblies and their committees, meetings of the faculties, public convocations for the purpose of hearing guest speakers, open meetings of the Board of Trustees or its committees, and

b) conduct in relation to: the character, time, place and duration of large-scale

*Continued on page 11*



McGraw Tower at night.

Photo by Claude Levett

## African development program set

Cornell is inviting African and American research experts to work together on problems critical to Africa's development.

The university established an Institute for African Development this autumn to deal with hunger, poor schools, farm lands turning to deserts and other blights on Africa and its people.

The institute will set up cooperative projects with African scientists, universities, research institutes and governments.

"Africa does not need foreign experts with preconceived answers," said Milton J. Esman, professor of government and chairman of the African Institute's executive committee.

"Instead it needs the assistance of scholars and scientists who are highly skilled and broadly experienced in their disciplines and committed to facilitating the process whereby Africans define and solve the problems of their societies," he said.

Robert Harris, director of the Africana Studies and Research Center, said the new institute will apply all of the university's available technology "to one of the major problems in Africa — food production."

Cornell will provide teaching, research and technical assistance to study critical problems facing tropical Africa, Esman said.

African scientists will be asked to help their Cornell associates gain a better understanding of African problems so that together they can tackle food shortages, ecological degradation, unemployment, declining trade and other hardships, Esman said.

"Cornell has developed over the past 25 years a set of disciplines and capabilities relative to Third World development to an extent probably unique among American universities," he said.

Cornell helped train scientists, policy makers and professional people in Southeast Asia and Latin America. Now the focus shifts to Africa.

"Cornell helped the University of the Philippines College of Agriculture become one of the leading agricultural research and extension centers in Asia," Esman said.

Agricultural scientists in the Philippines developed high-yield rice, which led to food self-sufficiency in several South Asian nations, including India.

The new institute's priorities in Africa include improving crop production and marketing, livestock health and management, human nutrition and health, and strengthening educational, research and administrative public and private agencies.

"Participating Cornell faculty will be prepared to make a sustained, long-term commitment to work on African problems," Esman said. "In the case of the Philippines, the program lasted over 20 years.

"Just as importantly, it requires a willingness to collaborate with the people and institutions of these nations so that they can define their development priorities and successfully solve their development problems."

David Lewis, associate professor of city and regional planning, was appointed director of the institute. His Third World credentials include building windmills from abundant, inexpensive bamboo to improve farm irrigation in the tropical Philippines.

Lewis worked 30 months with Kenyan officials during that nation's worst drought in 100 years. He said a food crisis was averted through the combined initiative of government officials, transport workers,



David Lewis

longshoreman's association and non-governmental organizations.

"Africa is gripped with appalling levels of human suffering, particularly hunger and malnutrition," a Cornell study says.

"Agricultural land is being lost to deserti-

*Continued on page 11*

## Notable

John W. Kronick, professor of Romance Studies, has been selected to direct a National Endowment for the Humanities Summer Seminar for College Teachers.

"The Self-Conscious Narrative in the Hispanic World" will run for eight weeks from June to August 1987. Of the 51 seminars set for 1987, Kronick's is the only one in the Hispanic area.

The Endowment's program brings to the Cornell campus 12 competitively chosen teachers from colleges and universities across the country and is designed to introduce new methods and insights that enrich teaching. Kronick conducted a similar seminar in 1983.

### Barton Blotter:

## 25 thefts reported

Nearly half of the 25 thefts reported on campus during the period Nov. 3 through Nov. 12 were of cash amounting to \$248 taken from wallets, purses and desks.

Total losses in cash and valuables according to the morning reports of the Department of Public Safety amounted to \$3,290 in 25 reported thefts. The largest single loss was a \$688 stereo system stolen from North Campus No. 8.

Other thefts included \$242.75 in computer disks and two rings worth \$540 taken from the Campus Store. A \$250 sign was stolen from Teagle Hall and camera worth \$189 was reported taken from the Helen Newman Hall bowling alley.

Five persons were referred to the judicial administrator, two on charges of disorderly conduct. Single charges of aggravated harassment, criminal possession of a parking permit and forging a parking permit were made against the other three persons.

Richard E. George of 103 Church Street, Newport R.I. was charged with possession of stolen property and with resisting arrest. Brian Lee of 940 Dryden Road was charged with falsely reporting an incident.

## Corrections

Last week's Chronicle incorrectly identified James Turner in a photo caption on Page 5. Turner is an associate professor in the Africana Studies and Research Center. Robert Harris is the current director of the Center.

The poster on Page 3 of last week's Chronicle, which was identified as a creation of the Office of Equal Opportunity, was designed by graduate student Diane McPherson and produced by the Sexual Harassment Prevention Subcommittee of the Advisory Committee on the Status of Women. It is being distributed by the Office of Equal Opportunity.

## Court of Appeals allows demolition of Stone Hall

Demolition of Stone Hall could resume as early as next week, according to officials of the State University Construction Fund, which is responsible for constructing a new academic building for the College of Agriculture and Life Sciences. Academic I, to be built at the west end of the Ag Quad, will replace the 81-year-old Stone Hall.

SUCF officials said this week that ads for construction bids for Academic I will be accepted in late January, with construction to begin in spring 1987. The new four-story building should be ready for occupancy in fall 1989.

New York State's highest court last week refused to hear an appeal that would have blocked further demolition of Stone Hall. Both Historic Ithaca and the City of Ithaca had asked the Court of Appeals to permanently block the project, which was halted Feb. 10 after a portion of the building had been demolished.

Academic I will include classroom space for the departments of education and communication and the program in landscape architecture, office space for the College of Agriculture and Life Sciences and Cornell Cooperative Extension, a 600-seat auditorium, and a dining facility for 400.

John F. Burness, Cornell's vice president for university relations, said the university is pleased that "the academic program will not be delayed any further."

Commenting on last week's court ruling, Burness said, "We are pleased that the unanimous decision was upheld. We're gratified, but not surprised by the ruling."

The Feb. 10 restraining order prohibited the State University of New York and the SUNY Construction Fund from continuing demolition started early that morning. The

city and the historic group claimed that the city's jurisdiction over historic landmarks supersedes SUNY's power to demolish its own buildings. Stone Hall, and other Ag Quad buildings, are on the local, state, and national historic registers.

Lawyers for the case, Historic Ithaca and the SUCF argued the case in Albany. Judge Robert R. Doran issued a five-page decision March 19, ruling that SUCF must seek a permit from the city.

An appeal of that decision was argued in June by the State Attorney General's office, with Cornell filing a friend-of-the-court brief in support of the appeal.

In a unanimous decision signed July 31, the Appellate Division of State Supreme Court ruled that the City of Ithaca cannot regulate the activities of the SUCF. The decision said state agency projects are subject to historical preservation review at the state level only.

Because the decision was unanimous, appeals are not permitted automatically. Instead, parties to the case can request a hearing. Thus, the city asked the state's highest court if it was interested in hearing the case.

On Nov. 13, the Court of Appeals refused to hear the appeal, clearing the way for demolition of Stone Hall and construction of Academic I. As part of the demolition contract, a second story staircase exit will be constructed at the west end of Roberts Hall, to comply with fire and building codes.

Demolition should take only a day, SUCF's Elwyn Steven estimated, but the clean-up and related work will take several weeks.

## Driver admits insults, resigns

A driver for the campus Blue Light bus service system has resigned following an investigation into a racial incident in October. The driver, who admitted making racial insults to two black pedestrians and two black passengers, originally had been suspended without pay for one week.

On learning of the incident, William D. Gurowitz, vice president for campus affairs, began his own review of the event. Gurowitz said he had determined that the original penalty was not sufficient.

"The racial insults are not only an insult to a part of our community, but to the whole community," he said. "It was particu-

larly egregious because the employee was in a department dedicated to service and part of the Blue Light system, which is here to provide an additional measure of safety and security for members of the community."

President Frank Rhodes, in a memorandum to Gurowitz, said, "I share your view that the behavior in this instance was intolerable, especially in a community dedicated to the creation of a caring, sensitive environment for people of different races, sexes, and cultural backgrounds. Racism and sexism have no place in our community."

"We must respond promptly and firmly to make clear such behavior will not be tolerated," he added.

## Small named to post

Wilson Small, former business manager for the Department of Transportation Services, has been named business manager for the Division of Campus Life.

A graduate of Northwest Bible College and the University of North Dakota Graduate School of Business, Small has been working at Cornell since 1984. He was the first participant in the Minority Business Management Internship program offered by the Controller's Office.

Before coming to Cornell, Small held various financial management positions in banking, shipping, retailing and higher education. He is a member of several professional organizations, including the Society for the Advancement of Management, American Management Association, Honor Society of the American Association of Bible Colleges.



Wilson Small

## Murray Death plans to leave the university

Murray A. Death, director of Cornell's Public Affairs Regional Offices, will be leaving the university in January to become assistant vice president at the University of Toronto.

Death has been responsible for managing the university's nine regional public affairs offices throughout the country since Jan. 1, 1984. He has also been coordinating the public affairs offices in the various

colleges during this time. Prior to this, he was director of the Cornell Fund.

A member of the Cornell Class of 1967, and co-captain of the varsity hockey team that won the national championship that year, Death joined the Cornell administration in 1968 as assistant director of alumni affairs. From 1970 to 1973 he was director of the Midwest Regional Public Affairs Office in Chicago.

## Briefs

■ **Short course for animal researchers:** The Center for Research Animal Resources will offer a short course in clinical methods, husbandry, and diseases in common laboratory animals Jan. 5-9.

The course is designed to teach animal technicians, graduate students and faculty the proper methods of restraint, blood drawing, infusion techniques, anesthesia and husbandry in the mouse, rat, rabbit and guinea pig. Other topics to be discussed include ethics, laws governing the use of animals in research, procurement of animals and their common diseases. Call Sue Lindsay, 253-3521, by Dec. 19 to register. Dates and times will be determined by the number of registrants.

■ **Equity sales/trading presentation:** Representatives of Donaldson, Lufkin & Jenrette Inc. will give a presentation on the firm's equity sales/trading division Nov. 20 at 5 p.m. in the Johnson Art Museum. A reception will follow.

■ **Management orientation program:** The Fall 1986 Management and Professional Orientation Program will be held Dec. 8 through Dec. 11 from 8:30 a.m. to noon in the boardroom of the Johnson Art Museum.

The programs offers selective midlevel management and professional staff an executive perspective on the major issues and challenges facing the university. For more information, contact the Office of Training and Development, 107 Day Hall, telephone 255-7170.

■ **Autumn family gathering:** All student families are invited to a pre-Thanksgiving family party for adults and children Nov. 23 from 2 to 4 p.m. in the first floor lounge, Robert Purcell Union, North Campus. Sponsored by Graduate Student Programs, Dean of Students Office.

■ **Roadway construction nears completion:** The opening of two new traffic booths at Campus Road (one across from Carpenter Hall, the other near the new parking garage) and the replacement of the booths at Rand Hall and at upper Tower Road (relocated just to the west of Wing Drive) mark the completion of the 1986 roadway construction projects.

Work will continue on the nearly \$125 million of campus building construction, but roadway work is finished for the season.

■ **Tax reform seminar:** The accounting firm of Coopers & Lybrand will present a seminar on tax reform Nov. 25 at 3 p.m. and again at 7 p.m. in 120 Ives Hall.

■ **Faculty members who missed the Campus Store's Nov. 8 deadline:** Text book commissions are asked to turn them in immediately.

## Graduate bulletin

■ **Short-term, part-time work:** The Graduate School needs four people to work Mon.-Fri. from 4 p.m. to 8:30 p.m. during the months of December and January on computer entry of application information. Some flexibility in scheduling is possible. Some weekend work is also available. If mutually agreeable, work may be extended into February. Contact Judith Aronson, 108 Sage Hall or call 255-3912.

■ **White House Fellowships:** The president's commission is accepting applications for one-year positions for special assistants to department heads. Fellows receive travel and salary benefits up to \$54,000. Applicants must be U.S. citizens and cannot be federal employees. Deadline: Dec. 15.

■ **Newcombe Doctoral Dissertation Fellowships:** Awards of \$9,000 for 12 months of full-time dissertation research and writing studying ethical and religious values in all fields. Applications must be requested by Dec. 12.

■ **Continuing Graduate Student Fellowship:** Applications will be available Dec. 3 in the graduate faculty representatives' offices. Suggested deadline for returning applications: Jan. 23, 1987.

## Cornell CHRONICLE

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# Scholars split on Central America

Scholars at a recent Cornell symposium on Central America disagreed on whether the Soviet Union poses a threat to that area, and they offered different opinions on the chances for peace.

Several specialists on Central America said changes in U.S. policy would benefit the region. But a sociologist and a Soviet expert said they are pessimistic.

The discussions brought to campus three experts on Central America who participated in a three-year study of social change in that region and U.S. policy. Their findings were published in a book, "Confronting Revolution: Security Through Diplomacy in Central America" (Pantheon, 1986).

Dennis Gilbert, an expert on Nicaragua at Hamilton College and Cornell, said the Sandinistas in that country proposed a formula to end military operations but President Reagan's administration was not interested.

Kenneth Sharpe, a political scientist at Swarthmore College, said a realistic approach to Nicaragua requires accepting its leftist government.

"We should not assume that a leftist government is more predatory than a rightist government," he said. "We need to be less concerned about how our neighbors organize their internal affairs."

Sharpe said neither Nicaragua nor the Soviet Union wants missile bases in that country.

"The Sandinistas don't want missiles, because they would then become hostage to any East-West conflict," he said. "The Soviet Union sees that the strategic balance has changed since the 1962 Cuban missile crisis."

"Now the Soviet Union has intercontinental missiles and submarines that can hit Washington in minutes. Missiles in Nicaragua are not necessary."

But Myron Rush, a Cornell expert on Soviet affairs, disagreed.

"Communist regimes penetrate deeply into society," Rush said. "They bring in secret police and violate human rights. If we accept that regime, we accept it for a long time. If we accept, it would be good for the Soviets."

"These regimes are our great enemies. Cuba does provide bases for the Soviets. They don't need missile bases, but there are other ways they are helped."

"The Soviets are consolidating their posi-

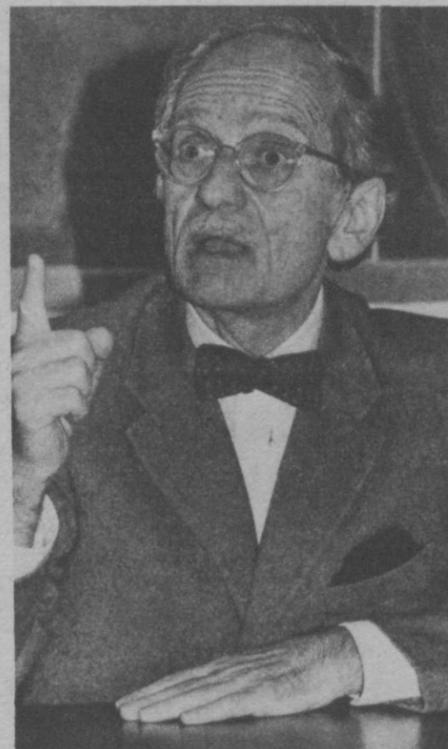
tions in the Third World. If we accept the Nicaraguan government, it will remain in power, and that will give the Soviet Union something worthwhile."

Gilbert said, "Soviet-style regimes are less stable than they appear as numerous revolts in East Europe demonstrate. Only the Soviet Army keeps these governments in power, and the Soviet Army can not perform this function in Central America."

Rush replied, "The Soviet army is not available to suppress internal problems in Nicaragua, but I would not rule out Cuban forces."

Joseph Kahl, a Cornell sociologist, said, "I do not wish to enter the arguments about which side is worse [in Central America], but only to acknowledge how god-awful and horrible it all is."

Kahl saw little hope. "Political reform to increase democracy, and structural or economic reform to reduce inequality and misery, will require miracles. The old structures are so intransigent and powerful, and have for so long decimated all moderate opposition, that there is no real basis for the kind of reform most of us in this room would probably like to see."



Joseph Kahl

Nicaraguan government, and sign a non-aggression pact.

"A State Department man confirmed that Nicaragua offered the proposal, but the United States made no response," Gilbert said. "He said that the right wing of the Reagan administration did not want to negotiate a settlement."

Gilbert said U.S. options in Nicaragua include negotiations, continuing to support the Contras or invasion, and "that would be stupid."

"What makes sense is to negotiate the kind of agreement written on the blackboard," Gilbert said, pointing to Nicaragua's proposal, which he had outlined in chalk on a blackboard. "It makes sense. I think most Americans would accept it."

Robert Paquette, a history professor at Hamilton College, predicted a discouraging future.

"Things are going to get worse before they get better," he said. "Even if moderate centrists come to power, I am dubious of any changes occurring in El Salvador or Guatemala."

Robert Trudeau, a political scientist from Providence College, discussed Guatemala, the most populous nation in Central America (7.5 million people).

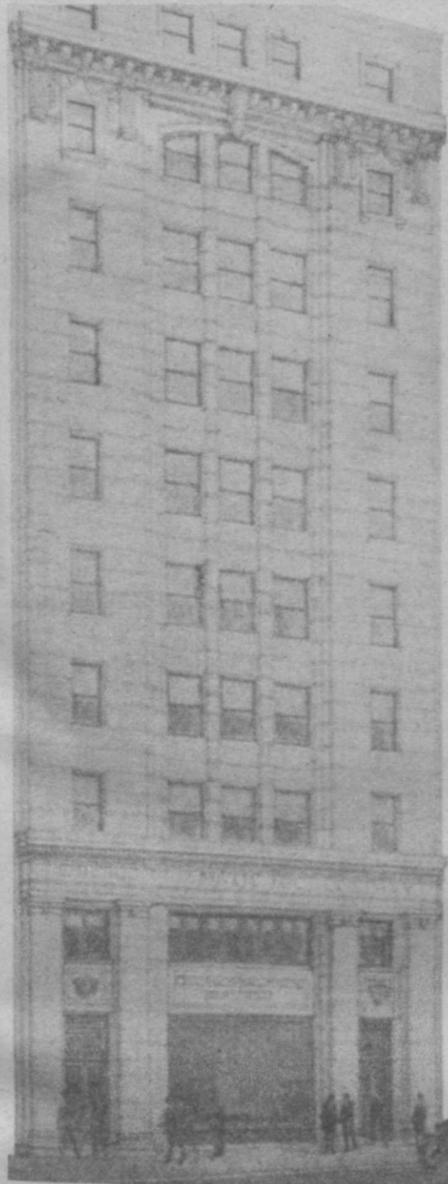
Vinicio Cerezo, a Christian Democrat elected president of Guatemala last year, says "his ability to respond to popular demands for change is severely limited by the resistance of powerful military and civilian elites," a symposium paper said.

Discussing the election in Guatemala, Trudeau said, "A civilian government recently was elected and the military went back to the barracks. The U.S. embassy said that democracy had arrived in Guatemala. We need not believe that, but there are signs for optimism."

Trudeau said that Guatemala experienced "tremendous economic growth" from the mid-1960s to the early 1970s. But he said that inequities in society are greater today than in the 1950s and 1960s and "it is unrealistic to think that the elite will give up their riches."

In El Salvador, President Jose Napoleon Duarte is "in a box," Sharpe told the symposium.

Continued on page 11



6 East 44th Street

## Cornell buys N.Y.C. building

Cornell has purchased a 10-story office building at 6 East 44th Street, between Fifth and Madison avenues in the heart of New York City as a center for academic and alumni activities.

A purchase contract for \$13.4 million was signed with the owner, Chicago Pneumatic Tool Co., on Nov. 7.

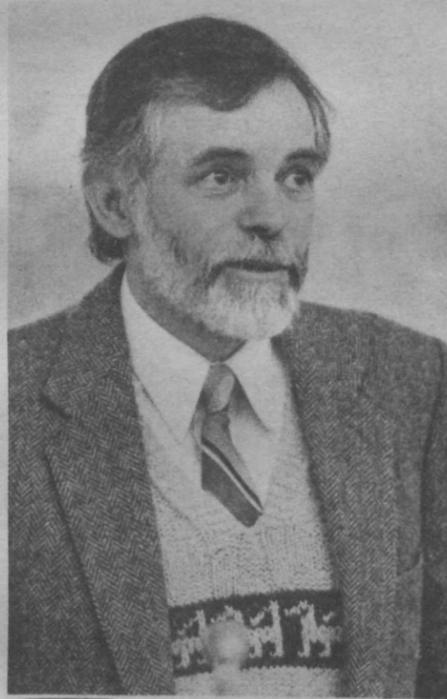
The modernized 1920-era masonry and steel structure will include guest rooms, spaces for seminars, symposiums, lectures and academic meetings, and areas for alumni activities, said Richard M. Ramin, vice-president for public affairs.

The 46,000-square-foot building is expected to be in full operation by late next year. The building is being purchased, in part, with gifts from alumni and friends and will be self-supporting, Ramin said.

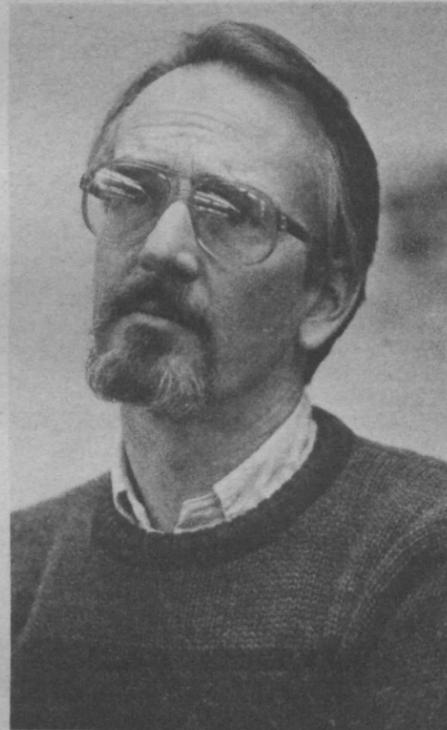
The structure will be used by the Cornell Club, which shares space with the New York University Club at Town Hall on West 43rd Street. For a year and a half prior to the current location, the Cornell Club was in the Women's National Republican Club. The lease on the club's first home, at East 50th Street and Third Avenue, expired in December 1983.

James D. Hazzard, director of alumni affairs, said the facility will fill a void in the university's interaction with its largest concentration of alumni. That void was created in 1983 when the lease was not renewed on the original home of the alumni-operated Cornell Club.

— Martin B. Stiles



Robert Trudeau



Eldon Kenworthy

"Almost every time the U.S. intervenes, even in the rare attempts to do so for noble purposes, it louses up the situation. Every new administration brings in a fresh team with a new vision — from the 'Alliance for Progress' through 'Human Rights' to 'Save Us from Communism.'"

"The new team does not know the history of the region and thus projects ideas from U.S. experience onto Central American experience."

But Gilbert said a peace formula submitted by Nicaragua to the United States would work. He said a Sandinista official told him that the proposal was submitted to Washington, which a State Department official confirmed in a private interview.

"The Sandinistas would like to come to terms with the United States," Gilbert said.

The Nicaragua plan included withdrawal of foreign advisers, prohibition of military bases, no supplies to guerrillas in El Salvador and arms limitations with verification procedures.

In exchange, the United States would call off the Contras, who are fighting against the

## Rhodes outlines need for new paradigm of learning

President Frank Rhodes has called on his fellow educators to overcome the fragmentation and moral vacuity of the modern college curriculum with a new paradigm for learning.

Modern education is in danger because of the diversity of the curriculum and the absence of moral values in teaching, Rhodes said at a Harvard colloquium on a recent report by the Carnegie Foundation for the Advancement of Teaching on the state of higher education.

Placing greater emphasis on vocational skills has resulted in the curriculum losing its breadth and coherence and students losing their commitment and sense of shared

purpose that undergraduate education once provided, he asserted.

Rhodes proposed a new paradigm for learning — not a return to the sentimental values of what a liberal education once was but a new model that takes into account the diversity and specialization of the modern curriculum.

He called for educational improvements at the elementary school level and more support for minority students; he stressed the importance of analytical skills over information retrieval; he called for developing professional education in the most expansive sense, saying "ethical perspectives can be cultivated within all disciplines"; he

encouraged transdisciplinary learning; and he reasserted the importance of people over courses in achieving these goals.

In calling for a new spirit of learning, Rhodes outlined the following skills and perspectives:

"The ability to read, write and speak with clarity, precision and grace; to understand and articulate not only the facts, but the nuances and shades of meaning.

"... the ability to delve deeply, systematically and thoroughly into new subject areas.

"An understanding of times and cultures other than our own."

An appreciation of the creative and per-

forming arts and other "non-verbal and non-quantitative expressions . . . to guard against the depersonalization of knowledge.

"Finally, through an in-depth study of one chosen area, students should develop an appreciation of the methods, boundaries, relationships, limitations and significance of a specific discipline."

He also cautioned liberal arts scholars that some have become "increasingly disengaged from the concerns of humanity."

He urged that the university itself "maintain restraint and detachment as an institution" from the causes of the day, "while encouraging involvement by its individual members — faculty, staff and students."

## Film asks 'Where have all the teachers gone?'

The frustrations of teachers leaving the profession and the enthusiasm of other educators who are encouraged to design innovative learning projects will be explored in a PBS documentary produced by Cornell.

The 30-minute film, "Where Have All the Teachers Gone?" is the sixth national television special produced by Cornell's Psychology Film Unit in the last 10 years.

"Now is the time to upgrade the status of teachers, to improve education by keeping teachers in teaching," said James B. Maas, a professional film maker and chairman of the psychology department. "This documentary lets people know about a program that works."

Undergraduate students were part of the film crew that visited Boston, Santa Barbara, Houston and New York City to study the nation's teacher shortage.

"I looked for students who were willing to work 15-hour days, and who were perfectionists," said Maas, winner of 28 film festivals and the documentary's producer and lone cameraman. "It's quite something for them to see their names in the credits of a show on national television."

"I was the 'key grip,' I did a lot of carrying of equipment and set up the lights at all the shoots," said Michael Birnbaum, a junior government major from New York City. "Many of the people we filmed were incredibly moving. There really is an education crisis in this country. It makes you wonder why we do things the way we do."

According to Maas, at least one student is questioning her desire to become a teacher after making the film.

"Where Have All the Teachers Gone?" will be televised locally this month and shown nationwide in February by the Public Broadcasting Service.

The Psychology Film Unit, founded by Maas 17 years ago, has been named the Audio-Visual Department of the Year three times in competition against film units at other institutions, including major corporations. Its previous national television specials, all shown on PBS, explored drunken driving and sleeping disorders, among other topics. Maas' films have been broadcast by networks in Canada, Britain, Denmark and Sweden.

For Maas, winner of the American Psy-



A teacher in the film 'Where Have All the Teachers Gone?' explains why she chose to leave the profession.

chological Association's Distinguished Teaching Award and an expert in the use of media in education, the latest topic was a natural one. A series of reports had criticized the nation's schools and called for improvements in teacher training and recognition. A corporate-sponsored program called Impact II was supporting innovative teaching projects in more than two dozen cities around the country.

The documentary has no narrator. Viewers hear teachers explain how frustrations over inadequate compensation, loss of control over subject matter and lack of respect from parents, students and administrators are driving them away from the profession.

"I was told to teach Shakespeare to students who couldn't even read English," says one former teacher. Ernest L. Boyer, president of the Carnegie Foundation for the Advancement of Teaching, warns viewers that by 1995 there may be 1.5 million fewer teachers than needed.

Viewers are taken to a vacant inner-city lot where students are busily engaged in an "archaeological dig," and on board a ship from which students conduct studies of water pollution and collect samples of microscopic sea life. Both projects are supported by grants through Impact II.

Receiving support and encouragement for her program "was a joy because I was reaffirmed as a teacher," one educator boasts. "That somebody out there thought my idea was worth while doing, that doesn't happen in education."

"So much of film today is filled with good images but not solid cognitive concepts and empirical information," Maas said. "Our approach is based on theories of learning, social psychology and attitude change."

About 100 student researchers and technicians have helped produce 36 films, commercial spots, slide shows and audio-visual education aids since the film unit was

formed in 1969. Maas said. The film unit was born out of Maas' frustration at the inadequacy of most media teaching aids, an essential component of his introductory-psychology lectures before 2,000 students in a Cornell auditorium.

"Students are enthusiastic about helping to make films," Maas said. "The students learn research skills and they help the process of attitude change in America."

Most students selected for the film unit spend one year as researchers and still photographers as part of an independent, for-credit course, Maas said. Those who prove perfectionists at tedious but exacting work in the editing room are invited to assist on local shoots, he added. For many, working on the film unit is their work-study job at the university.

The documentary was supported by a \$117,000 grant from the Metropolitan Life Foundation. Maas was accompanied on his four-city tour by professional sound man John Efroymsen and half a dozen undergraduate students whose activities ranged from keeping camera notes and working as lighting technicians to carrying filming equipment in 18 pieces of luggage.

Once filming was completed, the students were joined in the cutting room by graduate student Paula Clark, who served as chief editor. Some 36,000 feet (6.8 miles) of 16mm film was trimmed to a final 1,200 feet.

"The students were more than apprentices, they made tremendous intellectual contributions," Maas said. "We'd sit around dinner every night and rehash what happened that day, where we wanted the film to go."

"Sometimes, professional crews are brusque, ordering people around. But our smiling students put the people we interviewed right at ease."

Excerpts from "Where Have All the Teachers Gone?" will be shown from 3 to 4 p.m. on Nov. 20 on Syracuse television station WCNY as part of a viewer call-in show with Maas and Donna Morrison of the Central New York Teaching Center. The film will be shown on WCNY from 4:30 to 5 p.m., Nov. 29. A date for national airing in February has not been announced.

— Mark Eyerly

## Switzerland urged to pay for spill

The government of Switzerland should assume responsibility — together with Sandoz — for that company's chemical spills in the Rhine, according to Visiting Professor Francesco Francioni, a specialist in international environmental law.

The law professor further suggests that governments of countries affected by the spill should seek lump-sum settlements for damages and distribute compensation to injured parties. Otherwise, the spill could result in hundreds of thousands of individual lawsuits whose outcome may depend on whether Sandoz is charged with negligence or fault.

## Ricky Jay will lecture

Illusionist Ricky Jay will give a free public lecture and demonstration covering wizardry in England from the Elizabethan through the Victorian eras Nov. 21.

The lecture-performance is scheduled for 4 p.m. in Uris Hall Auditorium under the sponsorship of Cornell Library Associates.

Recipient of the 1984-85 International Platform Association's Magician of the Year Award, Jay is also the author of several books on conjuring and is curator of the Mulholland Library of Conjuring and Allied Arts in Los Angeles.

Jay is a member of the Cornell Class of 1968, and he performed in the Ithaca area during the late 1960s and early 1970s. He started his performing career at the age of seven and has appeared on television worldwide over the past three decades.

His most recent book, "Learned Pigs & Fireproof Women," (Villard Books, Random House) is "a study of unique and amazing entertainers: stone eaters, mind-readers, poison resistors, daredevils, singing mice, to name a few."

"Switzerland is a country that cares very much about the environment and is very much aware of the risk involved in denying responsibility," said Francioni, a professor of international law in Italy's University of Siena who has been teaching at Cornell since 1985.

"It is useless to convict Sandoz and make them liable for damages if nothing is done to prevent similar occurrences in the future. The damage to the European environment is so great that the matter will have to be transferred from the private level of responsibility to the intergovernmental level," Francioni said.

He added that not only would intergovernmental settlement of the case provide uniform standards of compensation, but it might improve international environmental law and help prevent recurrences of such disasters.

"If you hold a government accountable for the industrial activities taking place in its territory, you establish a body of precedents that in the future will advance standards of due diligence in preventing accidents and help determine when and how quickly an accident must be reported," the professor said.

According to Francioni, unless a precedent of inter-state claim is established, it will be hard to stimulate development of international environmental agreements. "States are very lazy in this sense," he said. "If there is not a need, they will never set up agreements. They always work under short-term pressures and will not open a forum for negotiating agreements unless there is a concrete problem to address."

"It would be ridiculous to have hundreds of thousands of individual suits according to traditional tort law," Francioni said. "If you have only private lawsuits against Sandoz, the standards of compensation may be different according to where they bring the claims, the skill of the lawyers or the level of financial support [for legal action]. This is something the governments of France,

West Germany and the Netherlands will want to avoid.

"Those countries should work toward a lump-sum compensation due to the governments, which they may distribute to the injured parties who have lost their means of livelihood," the law professor suggested. "It will be up to Switzerland to see, through its administrative procedures, that Sandoz is ultimately liable for compensating the damage."

— Roger Segelken



Francesco Francioni

## U.S. law requires immediate notice of spills

A new federal law requires manufacturers that spill toxic substances in the United States to notify the public immediately. If Switzerland had such laws, the Sandoz chemical spills in the Rhine might not have gone unreported for days, according to a Cornell specialist in environmental law.

American manufacturers must now report even small toxic spills to local — as well as federal and state — authorities, said Neil Orloff, professor of environmental law and director of the Center for Environmental Research. That requirement, a provision of new "Superfund" legislation that took effect in October, sets in motion local emergency responses, including evacuation of the area affected by the spill, if necessary.

The Sandoz pharmaceutical company spilled an estimated 30 tons of chemicals into the Rhine while fighting a fire at its Basel, Switzerland, facility on Nov. 1 and later acknowledged a spill of 88 gallons of weed killer on Oct. 31. Sandoz and the government of Switzerland have been criticized for delays in reporting environmental pollution to the European river.

However, an emergency planning and community right-to-know provision of the latest environmental clean-up law provides considerably more protection for Americans living near manufacturing sites, Orloff said. All communities that are susceptible to accidental release of hazardous substances will now have local emergency planning committees and emergency response plans. Assistance in establishing local emergency response will be provided through the U.S. Environmental Protection Agency (EPA), Orloff noted.

The new law adds a provision for local notification to previous requirements of notifying state and federal authorities in case of a toxic spill. Penalties for failing to report spills include imprisonment of company executives, the Cornell environmental lawyer said.

Included in the new law are of hundreds of substances on a federal list of hazardous materials. Spills as small as one pound will "trigger" the new reporting requirement, Orloff said, although the EPA can set higher cut-off levels for less hazardous materials.

— Roger Segelken

# Wolfram: Legal education turns its back on morals

Legal educators and lawyers in America have steadfastly turned their backs on examining moral issues in the practice of law, according to law professor Charles W. Wolfram, an authority on legal ethics.

In response to his sweeping indictment of legal practitioners and educators, in which he includes himself, Wolfram has written a 1,300-page encyclopedic volume titled "Modern Legal Ethics."

The book is aimed at filling "a void in the law profession's consideration of moral philosophy in relation to the practice of law," he says.

Wolfram, 49, believes that scant attention has been paid to ethical and moral questions in the nation's law schools, partly because moral philosophy has been neglected in the academic world, particularly in philosophy departments, for most of this century.

The statement that "law has nothing to do with justice or with morality" is a professorial put-down often heard in law school classrooms, Wolfram writes.

This attitude was expressed by Justice Oliver Wendell Holmes, who "groused that, whenever he heard fellow judges talk about justice, he knew they were not very good lawyers," Wolfram adds.

Wolfram explains in great detail why this mentality exists in the profession and how lawyers justify it within the tradition of the American legal system.

He writes that most of what is called "legal ethics" is really discourse on the law of professional regulations and that these regulations have little to do with such thorny moral questions as lawyers deliber-

ately attempting to lead a jury to disbelieve testimony the lawyers know is truthful.

Wolfram's book does not provide easy answers to the moral-ethical dilemmas lawyers face, but it does provide a practical frame of reference and means for considering these questions as they arise.

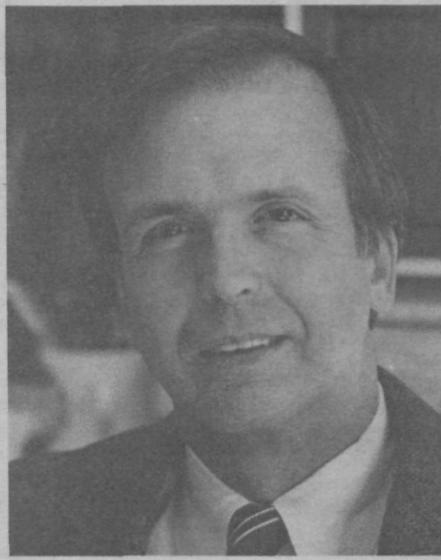
He says one of the ways lawyers have avoided these weightier moral questions is by assuming that whatever is legal is moral. They pass the issue off by saying that "my only job is to do whatever is legal in the best interests of protecting my client's legal rights."

Much of the book covers what he says are many commonly ignored laws that regulate lawyers' actions in areas where they believe they have far more discretion than the law permits.

For example, while lawyers are permitted to coach witnesses, something that is not permissible under European law, they must do it to assist the witness to testify truthfully and effectively. "A lawyer who advises a witness about the law or about desired testimony before seeking the witness' own version of events comes dangerously near," to supporting perjury, Wolfram writes.

He also says, "prosecutors, because of the power of their office, must be particularly alert to the dangers of improper influence on prosecution witnesses and of improper intimidation of defense witnesses."

Pointing to the notoriety the legal profession has received in the wake of Watergate and other scandals, he says that law professors and philosophers have "increasingly taken an interest in the relevance of moral philosophy to law practice."



Charles W. Wolfram

He said he hopes the book is a useful contribution to this growing new awareness of the complexity of moral decisions not only within the legal profession but in all areas of society.

The book, which was more than 10 years in preparation, was published earlier this year by West Publishing Co., St. Paul, Minn., in a practitioners edition for lawyers and in a somewhat abbreviated edition for law school students.

Wolfram was graduated from the University of Notre Dame, with an A.B. degree in 1959 and received his law degree (LL.B) from the University of Texas in 1962.

He came to Cornell in 1982 after serving on the faculty at the University of Minnesota Law School since 1965.

— Martin B. Stiles

# Daniel Boorstin to give lecture

Historian Daniel Boorstin, the librarian of Congress, will give a lecture here on Dec. 1 on the topic, "America: Discovery, Invention or Creation."

The free public lecture is scheduled for 4 p.m. in the Hollis E. Cornell Auditorium of Goldwin Smith Hall to mark establishment of the Newman Professorship in American Civilization in the College of Arts and Sciences.

A nationwide search is underway for the first holder of the endowed professorship, which was established by the Jerome A. and Estelle R. Newman Assistance Fund with a gift of \$1.25 million. The position is expected to be filled in time for the 1987-88 academic year.

The professorship was established to explore the influence of U.S. traditions, business and economics, art, law, literature, politics, popular culture, and science and technology on cultural evolution and progress in the 20th century, according to Geoffrey V. Chester, dean of the Arts College.

Chester and President Frank Rhodes will take part in a dedication ceremony before Boorstin's lecture with Howard A. Newman, president of the fund established by his parents.

Newman, a member of the Cornell Class of 1942, is chairman and chief executive officer of Western Pacific Industries Inc.

Boorstin is a prolific author whose books include "The Discoverers," a history of man's search to know the world and himself. Published in 1983, the book was on The New York Times best seller list for six months.

— Martin B. Stiles

# Raymond to address club

The chairman of Raymond Corp. will discuss how his company made the transition from producing forklifts to producing automated materials-handling equipment at a meeting of the Johnson Graduate School of Management Club of Ithaca on Nov. 20 at 6 p.m. at La Tourelle. The cost is \$22.50 per person.

George G. Raymond Jr. said he will use his company's transition as a case study in talking about what a corporate strategy is and "what you look at when you look at strategy."

Raymond is chief executive officer of the company, which his father bought in 1922 from the grandson of its founder. The company, then known as the Lyon Iron Works, was a foundry, machine shop and wood shop that previously had produced agricultural equipment.

The name was changed to Lyon Raymond in 1940, when it began making materials-handling equipment and, in 1950, the name was changed once more, this time to Raymond Corp., when the company introduced narrow-aisle, electric forklifts to the industry, Raymond said.

The company, which is based in Greene, N.Y., now produces automatic guide vehicles, which follow buried wires or other electronic or visual signals to move merchandise or supplies through warehouses or assembly plants; automatic storage and retrieval systems, mainly for food or pharmaceutical warehouses and automobile parts storage facilities; and flexible automated assembly systems, which bring work to assembly areas. Raymond Corp. also still makes forklift trucks.

Some 1,300 employees work in four locations — Syracuse; Brantford, Ontario; Hollister, Calif.; and Greene. The publicly held company's stock is traded over the counter.

The Ithaca group is one of 16 JGSM clubs that were started in the fall of 1985 because alumni were asking for a closer association with the school, in particular with the intellectual life of the school, according to JGSM Dean Curtis W. Tarr.

The clubs give alumni this link through visits from members of the Cornell faculty and staff, and also serve members as a valuable means of networking, he said.

In turn, club members help Cornell by seeking out promising candidates for JGSM and holding receptions for them.

"Some of our clubs coordinate job fairs and work very closely with our director of placement because, for certain areas of the country, it is easier to send the students to



George G. Raymond

meet with a group of corporate recruiters outside the campus than for corporations with limited resources to visit Cornell," Tarr explained.

He added that he believes a strong alumni relations program is important for two reasons: "One, I wanted the school to develop a lifelong association with alumni. The school can help alumni by helping them to maintain professional qualifications and to continue their relationships with friends. The alumni can assist the school to recruit and place its students and to strengthen its academic program. And two, a strong alumni relations program is the basis for future financial support."

Other JGSM clubs are in Boston; Buffalo; Cincinnati; Dallas; Greenwich, Conn.; Houston; Los Angeles; New York City; Philadelphia; Portland, Ore.; Rochester, N.Y.; San Francisco; St. Louis; and Washington, D.C. A club is being formed in Chicago and will be in place by the spring of 1987, according to Ann L. Calkins, JGSM's assistant dean for external relations.

Among recent speakers from the corporate world have been William E. Phillips, chairman of the Ogilvy Group; Charles F. Knight, chief executive officer of Emerson Electric Co.; and Samuel C. Johnson, chairman and chief executive officer of S.C. Johnson & Son Inc., whose family in 1984 made the largest gift to a business school — \$20 million to JGSM. Cornell speakers have included Profs. Harold Bierman Jr., Dick R. Wittink, L. Joseph Thomas and Robert H. Smiley of JGSM.

— Barry Gross

# A.D. White professor-at-large nominations solicited

Nominations are being accepted for three Andrew D. White professor-at-large positions to be filled in 1987.

Professors-at-large are individuals who have achieved outstanding international distinction in the humanities, the natural or social sciences, or the learned professions. They may also have achieved distinction and demonstrated broad intellectual interests through their activity in such fields as public affairs, literature, or the creative arts.

The current roster of professors-at-large, with the year of expiration of their appointments and departmental affiliations is:

- Michelangelo Antonioni, film director, 1987, Comparative Literature and Romance Studies.
- Michael Baxandall, art historian, 1988, History of Art.
- Norman E. Borlaug, plant scientist, 1988, Plant Breeding and Biometry.
- Francoise Choay, historian of architecture and city planning, 1992, Architecture.
- Sir David Cox, statistician, 1989, Biometrics Unit.
- Jacques Derrida, philosopher, literary critic, 1988, Romance Studies.
- Sir Kenneth Dover, classicist, 1989, Classics.
- Richard L. Garwin, physicist, 1988, Peace Studies.
- Paul Greengard, neurophysiologist, 1987, Veterinary Physiology.
- John L. Heilbron, historian of science, 1990, History.
- Bernard Lewis, Islamicist, 1990, Near Eastern Studies.
- Laszlo Lovasz, mathematician, 1987, Operations Research.

Operations Research.

- Geoffrey Marshall, political theorist, 1991, Law School.
- Ali A. Mazrui, Africanist, political scientist, 1992, Africana Studies.
- Adrienne Rich, poet, 1987, Women's Studies.
- Michael L. Rutter, psychiatrist, 1991, Human Development and Family Studies.
- Margery W. Shaw, geneticist, physician, lawyer, 1988, Science, Technology & Society.
- Sir Richard Southwood, biologist, 1991, Ecology & Systematics.
- John Szarkowski, curator and historian of photography, 1989, Art.
- Kip S. Thorne, astrophysicist, 1992, Astronomy.
- Eudora Welty, novelist and short story writer, 1990, English.
- Harold W. Woolhouse, biologist, 1989, Plant Biology.

The aim of the program is to enliven and enrich intellectual and cultural life at Cornell. When other things are equal, preference is given to faculty and student constituencies not represented in the program.

A committee of six appointed and three ex officio members makes the selections.

The terms of appointment are six years, with an obligation to spend at least two weeks at Cornell in each three-year period, but with the hope of longer and more frequent visits; all living expenses while in residence; travel to and from Ithaca; and an honorarium computed at the rate of \$6,000 per month.

# Correspondent to discuss Reagan

ABC News Pentagon correspondent Bob Zelnick will discuss "Reagan and the Russians: What Comes Next" Nov. 21 at 2:30 p.m. in Ives Hall.

Zelnick is a 1961 graduate of the School of Industrial and Labor Relations. He received a law degree from the University of Virginia in 1964.

Zelnick recently began covering the Pentagon after being ABC's correspondent in Israel for two years, serving for two years as bureau chief in Moscow and spending three years as deputy bureau chief in Washington.

Other assignments have included one year as chief writer and editor for David Frost's videotaped interviews with former President

Nixon and four years at National Public Radio, first as a correspondent and then as national news bureau chief.

His articles have appeared in Harpers, Foreign Policy and The New York Times magazines, and in The Washington Post and Christian Science Monitor.

Zelnick also has been a reporter for The Anchorage Daily News and, in 1967, he went to Vietnam as a free-lance writer.

His visit is being sponsored by the School of Industrial and Labor Relations, Center for International Studies, Peace Studies Program and Department of Communication.

# CALENDAR

All items for the calendar, except seminar notices, should be submitted (typewritten, double spaced) by mail or in person to Fran Appgar, Central Reservations, 531 Willard Straight Hall.

Notices must be received 10 days prior to publication and must include the name and telephone number of a person who can be called if there are questions, and also the sub-heading of the calendar in which the item should appear, i.e. dance, lectures, music, etc.

Seminar notices should be sent to arrive at the Chronicle office, Village Green, 840 Han-shaw Road, 10 days prior to publication.

These deadlines will be enforced.

## DANCE



### Israeli Folkdancing

Folkdancing every Thursday at 8:30 p.m. in the Edwards Room, Anabel Taylor Hall.

### Cornell Folkdancing

Cornell folkdancers meet in the North Room of Willard Straight Hall on Sundays throughout November. Free instruction from 7:30 till 8:30 p.m., followed by request dancing till 10:30 p.m. Beginners welcome, no partners needed. For more information call 257-3156.

### Willard Straight Dance

Willard Straight Hall Contra Dance, Nov. 24, 7 - 10 p.m. Free admission.

## EXHIBITS

### Johnson Art Museum

The Herbert F. Johnson Museum of Art, located 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.

"Shouts From the Wall," 26 political posters from the Spanish Civil War on loan from the Tamiment Archives of New York University's Bobst Library, through Dec. 21. Sponsored by the Western Societies Program and the Department of Romance Studies to commemorate the 50th anniversary of the war.

"American Modernism: Precisionist Works on Paper," 40 works featuring Charles Demuth, Louis Lozowick, Charles Sheeler and Joseph Stella, among others, Nov. 8 through Dec. 21. A video tape of the 1921 film "Manhatta" will run continuously in the exhibition.

"New York State Artists VI," an invitational exhibition featuring the work of five upstate artists — James Allen, Christine Heller, Carol Kinne, Michael Teres and Courtney Frisse, Nov. 8 through Dec. 21.

"A Personal View: Photography in the Collection of Paul F. Walter," opens Nov. 15 and continues through Dec. 21. A gallery talk will be held Nov. 16 at 2 p.m. featuring John Pultz, professor of photography at Bard College and author of the exhibition's catalogue.

### Olin Library

"Fight for Freedom: The Hungarian Revolution after 30 years," through Dec. 20.

"1936 - 1956 - 1986: War and Revolution in Spain and Hungary," First floor and lower level. Sunday - Thursday, 8 a.m. - midnight.

Fine binding marbling, Rare Books room, 8 a.m. - noon; 1 p.m. - 5 p.m.

## FILMS

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

### Friday 11/21

"Fellini Satyricon" (1970), directed by Federico Fellini, with Martin Potter and Hiram Keller. 8 p.m., \*Uris Hall Auditorium.

"Alien" (1979), directed by Ridley Scott, with Tom Skerritt, Sigourney Weaver, John Hurt and Harry Dean Stanton. 11 p.m., \*Uris Hall Auditorium.

"Aliens" (1979), directed by James Cameron, with Sigourney Weaver, Carrie Henn, and Michael Biehn. 7:30 p.m., \*Statler Auditorium.

"A Room With A View" (1986), directed by James Ivory, with Maggie Smith, Helen Bonham Carter, Denholm Elliot. 10:30 p.m., \*Statler Auditorium.

### Saturday 11/22

"Fellini Satyricon" (1970), 7:15 p.m., \*Statler Auditorium.

"Alien" (1979), 11 p.m., \*Uris Hall Auditorium.

"Aliens" (1979), 10:15 p.m. \*Statler Auditorium.

"A Room With A View" (1986), 8 p.m. \*Uris Hall Auditorium.

### Sunday 11/23

"Star Wars" (1977), directed by George Lucas, with Mark Hamill and Harrison Ford. Co-sponsored with the Ithaca Youth Bureau. Admission \$2, \$1.50 under 12. 2 p.m., \*Uris Hall Auditorium.

"Jikken Eiga: The Third Annual Japanese Experimental Film Show" (1986), Guest Filmmaker Tatsu Aoki. 2 p.m., The Johnson Museum. Co-sponsored with the Council for the Creative and Performing Arts.

"Royal Wedding" (1951), directed by Stanley Donen, with Fred Astaire and Jane Powell. 8 p.m., \*Uris Hall Auditorium.

### Monday 11/24

"Bliss" (1985), directed by Ray Lawrence, with Barry Otto, Lynette Curran and Helen Jones. 8 p.m., \*Uris Hall Auditorium.

### Tuesday 11/25

"A Bigger Splash" (1974), directed by Jack Hazan, with David Hockney and Peter Schlesinger. Shown with "David Hockney's Diaries" 8 p.m., \*Uris Hall Auditorium.

"Sanctuary of the Earth Goddess," Video depicting the legend of the Earth Goddess as it influences the lives of the villagers in the land of the Minangkabau. Southeast Asia Film Series. 4:30 p.m., Uris Library Media Center.

### Wednesday 11/26

"Adi Shankaracharia" (1983), directed by G.U. Iyer, with S.D. Banerjee and M.U. Narayana Rao. Co-sponsored with the South Asia Program. 4:30 p.m., Uris Hall Auditorium.

## LECTURES

### American Indian Program

"The Effects of Colonization Among Iroquois During the Period 1600-1800," John Mohawk, Nov. 24, 7 p.m., 250 Caldwell Hall.

### CARP

Experience in the Phillipines, Beatrice Boccalandro, a participant in Religious Youth Service project, Nov. 20, 7:30 p.m., Room 140 Goldwin Smith Hall.

### China - Japan Program

"Tokyo Today: Transforming Japanese Life and Art," Patricia Graham, Department of Art History, Nov. 20, 4:30 p.m., 230 Rockefeller Hall.

"Discussion with Tatsu Aoki," visiting Japanese film-maker who is accompanying the Japanese Experimental Film Series featured at the Johnson Art Museum Nov. 23 and 30. Brownbaggers welcome; coffee, cider and donuts provided. Nov. 24, 12:15 to 1:15 p.m. Asian Studies Lounge (374 Rockefeller Hall). Sponsored by the China - Japan Program and the Johnson Art Museum.

### Cyprus Student Association

The history and archaeology of Cyprus, John Coleman, Department of Classics, Nov. 21, 8 p.m., Room D Goldwin Smith Hall.

### English/American Studies

"Lionel Trilling: The Politics of Style," Mark Krupnick, Department of English, University of Wisconsin, Nov. 20, 4:30 p.m. 115 Rockefeller.

Professor Krupnick is the author of "Lionel Trilling and the Fate of Cultural Criticism" (1986). His articles have appeared in Modern Occasions, Southern Review, and Salmagundi. His book on Trilling, one of the most influential of New York intellectuals, has received extensive praise.

### Graduate Christian Forum

"The Quest for Wholeness," an examination of Augustine's "Confessions," Carl G. Vaught, Department of Philosophy, Penn State, Nov. 21, 8:15 p.m., Founders Room of Anabel Taylor Hall.

### Israeli-Palestinian Dialogue

"Progressive Zionist Caucus," Ronnie Brawer and Walid Jubal, Nov. 20, 8 p.m., Ives Hall room 126.

### Johnson Distinguished Lecture Series

"Why Is There Sex?" Robert Cook, director, Cornell Plantations, Nov. 24, 5 p.m. Bache Auditorium, Malott Hall. The lecture will address the research concerns of evolutionary ecologists and the business aspects of the field. For more information, call James W. Schmotter, 255-6417.

### Palestine Human Rights Committee

"Israeli - Jordanian - Palestinian Political Struggle over the West Bank and Gaza," Khalil Jahshan, assistant editor of Palestine, Perspectives of the Palestine Research and Educational Center, Nov. 24, 5 p.m., 115 Rockefeller Hall.

### Southeast Asia Program

"Fiction and the Image of Burmese Characters," John Badgely, curator, John M. Echols Collection on Southeast Asia. Nov. 20, 12:20 p.m. 102 West Ave. Ext.

### Public Lecture/Demonstration

"Conjuring and Conjuring Literature: From Elizabeth to Victoria," Ricky Jay, curator, Mulholland Library of Conjuring and the Allied Arts, Los Angeles, Calif. Nov. 21, 4 p.m., Uris Hall Auditorium. A reception will follow. Sponsored by the Cornell University Library Associates.

### Russian Literature Committee on Soviet Studies

"A Life of Literary Translation (from Slavic Languages)," Ewlad Osers, Fellow of the Royal Society of Literature, Fellow of International P.E.N., vice president, International Federation of Translators. Nov. 24, 4:30 p.m., 177 Goldwin Smith.

### Women's Studies

"The Ritual of Romance Reading: Rehabilitating Female Subjectivity in the Wake of Feminism," Janice Radway, University of Pennsylvania. Dec. 1, 4:30 p.m., A.D. White House.

NOVEMBER						
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## MUSIC



### Bound for Glory

Cranberry Lake, jug band and old-time music, Nov. 23. Performances are free and open to the public. Three live sets at 8:30, 9:30 and 10:30 p.m. in the Commons Coffeehouse in Anabel Taylor Hall. Broadcast live on FM 93 on Sundays from 8 to 11 p.m. Also on 105.5 FM.

### Cornell Folk Song Club

Cornell Folk Song Club holds two informal group sings each month. One is held on the first Wednesday of each month, at the Unmuzzled Ox Coffeehouse on Oak Ave. in Collegetown, the other on a Saturday evening to be announced.

Canadian songwriter Garnet Rogers will perform Nov. 22, 8:30 p.m. at Kaufman Auditorium, Goldwin Smith Hall. Tickets are available in advance at The Commons Coffeehouse in Anabel Taylor Hall, Ithaca Guitar Works in Dewitt Mall and Borealis Books in Collegetown.

### Cornell Dept. of Music

Nov. 20, 3:30 p.m., lecture/demonstration: Trevor Stephenson, fortepiano, Mozart's C minor Fantasy, K.475. Barnes Hall.

Nov. 20, 8:15 p.m., Statler Series: Janos Starker, cello, works by Locatelli, Chopin, Schuber, Schumann, Weber. Statler Auditorium.

Nov. 21, 8:15 p.m., Collegium Musicum: John Hsu, director, works by 16th and 17th century Italian composers. Barnes Hall. The Cornell Collegium Musicum is composed of instrumentalists from the university and Ithaca communities who specialize in performing early music on viols, recorders, krummhorns, shawns and sackbuts.

Nov. 22, 8:15 p.m., Cornell Symphony: Edward Murray, conductor, Copland's "El Salon Mexico" or "The Popular Type Dance Hall in Mexico City," Schumann's Symphony No. 3, "The Rhenish," and Sibelius' "Tabi-ola." Bailey Hall.

Nov. 23, 4 p.m., Cornell Symphonic Band: John Jay Hilfiger, conductor, works by Vaughan Williams, Persichetti, Gabrieli. Bailey Hall.

Nov. 23, 7 p.m., Smith College Glee Club / Cornell Glee Club. Sage Chapel. Tickets are \$4, \$3 seniors and students, and are on sale in the Lincoln Hall ticket office or at the door. For reservations, call 255-3396.

Nov. 24, 8:15 p.m., Premier Performances: Works by Cornell graduate students Alexander, Brackett, Bradbury, Grant, Hopkins, Kaufman, Tarsy, Lefkowitz. Barnes Hall.

### Johnson Museum Music

New Music Concert, flutist Debbie Spitz will perform original compositions with local musicians, Nov. 22, 3:30 p.m. Admission \$2.50, \$2 for museum members.

## RELIGION

### Sage Chapel

W. Jack Lewis, director emeritus of Cornell United Religious Works, will preach at Sage Chapel Nov. 23 at 11 a.m.

Music for the service will be provided by the Sage Chapel Choir under the direction of Donald R. M. Paterson, university organist and Sage Chapel choirmaster.

### Catholic

Mass: Every Saturday, 5 p.m., Anabel Taylor Auditorium. Every Sunday, 9:30 and 11 a.m. and 5 p.m., Anabel Taylor Auditorium. Monday through Friday, 12:20 p.m. Anabel Taylor Chapel.

Sacrament of Penance Saturdays from 3 to 4 p.m., G22 Anabel Taylor, or by appointment, 255-4228.

### Christian Science

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

**Episcopal (Anglican)**

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

**Great Commission Students**

Worship service: Every Sunday, 10:30 a.m. 314 Noyes Center. Bible Discussion Group: Every Wednesday, 7:30 p.m. Noyes Center 310.

**Jewish**

Morning Minyan: 7:30 a.m. Young Israel House, 106 West Ave. Call 272-5810.

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

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

Orthodox Shabbat Service: Every Friday, Young Israel, 106 West Ave. Call 272-5810 for time. Every Saturday, 9:15 p.m. Anabel Taylor Edwards Room.

**Korean Church**

Every Sunday, 3 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.

**SEMINARS**

**Agricultural Engineering**

"An Automated Process for Producing Deviled Eggs," Neal Kreher, 12:20 p.m., Nov. 24, 400 Riley Robb Hall.

"Water Movement Through Layered Coarse Sands: Wetting Front Instability," 12:20 p.m., Dec. 1, 400 Riley Robb Hall.

**Agronomy**

"Fact and Fantasy in 15N Tracer Studies with Fertilizer Nitrogen," J.M. Duxbury, Department of Agronomy, 4 p.m., Nov. 25, 135 Emerson.

**Anthropology**

"Gopi Chand's Tears: Exploring Emotion in a Rajasthani Oral Tale," Ann Gold, 4:40 p.m., Nov. 24, 305 McGraw Hall.

**Applied Mathematics**

"Crabgrass, Measles and Gypsy Moths: An Introduction to Modern Probability," Richard Durrett, Mathematics Department, 4 p.m., Nov. 21, 322 Sage Hall.

**Astronomy**

"Evolution of Cooling Flows," Roger Chevalier, University of Virginia, 4:30 p.m., Nov. 20, 105 Space Science Building.

**Biochemistry, Molecular and Cell Biology**

"Interplay of Multiple Sequence Specific Transcription Factors at Eukaryotic Promoters and Enhancers," Robert Tjian, Department of Biochemistry, University of California-Berkeley, 4:30 p.m., Nov. 21, 204 Stocking Hall.

**Biophysics**

"Biological Applications of Synchrotron Radiation at Brookhaven," Robert Sweet, Department of Biology, NSLS Brookhaven National Laboratory, Upton, N.Y., 4:30 p.m., Dec. 3, 700 Clark Hall.

**Center for International Studies**

"Priorities and Problems of Long-Term Development of Africa's Agricultural Resources," John J. McKelvey Jr., 4 p.m., Nov. 20, 217 Ives Hall.

**Chemical Engineering**

"Melting, Freezing, in Glass Transitions for Simple Materials," Paulette Clancy, Department of Chemical Engineering, 10 a.m., Dec. 2, 145 Olin.

**Chemistry**

"Dephasing and Quantum Percolation in Crystals," James L. Skinner, Columbia University, 4:40 p.m., Nov. 20, 119 Baker Laboratory.

"Inhibitors of Platelet Activating Factor Receptor Binding," John C. Chabala, Merck, Sharp & Dohme, 4:40 p.m., Nov. 24, 119 Baker Laboratory.

"Synthetic Approaches to Alpha-2 Antagonists," Ralph P. Volante, Merck, Sharp & Dohme, 4:40 p.m., Dec. 1, 119 Baker Laboratory.

**City and Regional Planning**

"Towards a Theoretical Geography of Tertiary Development," Frank Moulaert, associate director, Centre Europeen John Hopkins, University of Lille, France, 12:15 p.m., Nov. 21, 157 E. Sibley Hall.

**Civil Engineering**

"The Use of Historical and Paleoflood Information in Flood Frequency Analysis" J.R. Stedinger, 4:30 p.m., Nov. 20, main seminar room, 1120 Snee Hall.

**Ecology and Systematics**

"Close Encounters of the Fourth Kind: Kin Recognition and Colony Fusion in a Colonial Sea Squirt," Richard K. Grosberg, Department of Zoology, University of California-Davis, 4:30 p.m., Dec. 3, Morison Seminar Room, A106 Corson/Mudd.

**Environmental Research**

"Local Governments and Pesticides," David Allee, agricultural economics, 3 p.m., Nov. 21, 124 Martha Van Rensselaer Hall.

**Floriculture and Ornamental Horticulture**

"Etiolation for Improved Rooting - How it Works," Brian Maynard, 12:15 p.m., Nov. 20, 37 Plant Science Building.

"Herbicide Transport Mechanisms in Plants," John Jachette, visiting scientist, Union Carbide, 12:15 p.m., Dec. 4, 37 Plant Science Building.

**Geology**

"The Use of Historical and Paleoflood Information in Flood Frequency Analysis," J.R. Stedinger, civil engineering, 4:30 p.m. in 1120 Snee Hall.

"Effect of H<sub>2</sub>O on the Mantle: Origins of the Oceans and Low Velocity Zone," Lin Gun-Liu, Australian National University, 4:30 p.m., Dec. 1, 1120 Snee Hall.

"Flexural Deformation of the Adriatic-Po foredeep Basin, Italy: A Window into Subduction Zone Processes?" Leigh Royden, Massachusetts Institute of Technology, 4:30 p.m. Dec. 2, 1120 Snee Hall.

**Immunology**

"Mechanisms of Anti-Inflammatory Steroid Action," Dr. Robert Schleimer, The Johns Hopkins University, 12:15 p.m., Nov. 21, Boyce Thompson Auditorium.

**Manufacturing Engineering**

"Manufacturing Systems Research at Ford Motor Co.," Frode Maaseidvaag, Ford Motor Co., 4:30 p.m., Nov. 20, 282 Grumman.

**Materials Science and Engineering**

"Optical Disks," Mool Chand Gupta, Kodak, 4:30 p.m., Nov. 20, 140 Bard Hall.

**Mechanical and Aerospace Engineering**

"Dynamics of Explosive Boiling of a Droplet," David Frost, McGill University, 4:30 p.m., Dec. 2, 282 Grumman.

**Neurobiology and Behavior**

"Neural Mechanical Match in Lamprey Locomotion," Thelma Williams, Department of Physiology, St. Georges Hospital Medical School, London, 12:30 p.m., Nov. 20, Morison Seminar Room, Corson/Mudd Hall.

**Ornithology**

"How Honeybees Choose a Home," Tom Seeley, Department of Neurobiology and Behavior, 7:45 p.m., Nov. 24, Laboratory of Ornithology, Sapsucker Woods.

"The Lab: Winging into our Fourth Decade," Charles Walcott, director of the Laboratory of Ornithology, 7:45 p.m., Dec. 1, Laboratory of Ornithology, Sapsucker Woods.

**Peace Studies**

"The Relationship of the Law of International Crimes to Human Rights in an Age of Terrorism," Francesco Francioni, Law School, 12:15 p.m., Nov. 21, 153 Uris Hall.

"Reagan and the Russians: What Comes Next?" Bob Zelnick, ABC Pentagon correspondent, 2:30 p.m., Nov. 21, 110 Ives Hall.

"Permissive Action Links," Peter Stein, 12:15 p.m., Dec. 3, 153 Uris Hall.

**Pharmacology**

"Nicotinic Cholinergic Recognition Sites in Mammalian Brain," Kenneth Kellar, Department of Pharmacology, Georgetown University, 4:30 p.m., Nov. 24, Pharmacology Library (D101-L Schurman Hall).

**Physiology**

"Vasopressin and Prolactin in Fetal Sheep: Role in Osmoregulation," Jorge Figueroa, Ph.D. candidate, Field of Physiology, 4:30 p.m., Dec. 2, G-3 Vet Research Tower.

**Plant Biology**

"Differential Gene Expression in Maize Endosperm," J. Messing, Waksman Institute, Rutgers University, 11:15 a.m., Nov. 21, 404 Plant Science Building.

"In Vivo Oxidation and Reduction of Glutathione in Plants," I.K. Smith, Botany Department, Ohio University, 11:15 a.m., Dec. 5, 404 Plant Science Building.

**Plant Pathology**

"Conventional Genetic Analysis of the Relationships Among Maackiaian Tolerance, Maackiaian Metabolism and Virulence of Nectria Haematococca MP VI on Cicer Arietinum," Vivian Miao, 4:30 p.m., Nov. 25, 404 Plant Science Building.

"Development and Evaluation of Methods for Timing Fungicide Applications for Control of Botrytis Leaf Blight of Onion," Paul Vincelli, 4:30 p.m., Dec. 2, 404 Plant Science Building.

**Pomology**

"Feasibility of Automated Transplanting of Lettuce in New York," Tom Tomas, 4:30 p.m., Nov. 20, 404 Plant Science Building.

"Food Irradiation," Louis M. Masses, Jr., Department of Food Science Technology, 4:30 p.m., Dec. 4, 404 Plant Science Building.

**Rural Sociology**

"The Management of Natural-Renewable Resources for Mixed Subsistence Communities," Robert M. Muth, research social scientist, U.S. Forest Service, Juneau, Alaska, 4 p.m., Nov. 20, 304 Fernow.

"Palm Sugar Producers in Southern Thailand: Class and Commoditization of Household Production," Peter Vandergest, 3:30 p.m., Nov. 24, 32 Warren Hall.

"Pragmatic Adjustment in Agrarian Reform: 'Dead Furrow' Cooperatives in Northwest Nicaragua," William Sunderlin, 3:30 p.m., Nov. 24, 32 Warren Hall.

**Toxicology**

"The Cytogenetic Toxicity of Cyclophosphamide Metabolites in Human Lymphocytes and its Reduction by the Anticarcinogen 2-Mercaptoethanesulfonate," James L. Wilmer, Bristol-Meyers Co., 12:20 p.m., 304 Fernow Hall.

**THEATRE**



**Theatre Cornell**

"Mother Courage," by Berthold Brecht, directed by David Feldshuh, Willard Straight Theatre, Nov. 21 and 22 at 8 p.m.; Nov. 23 at 2:30 p.m. For ticket information, call 255-5165.

"A Christmas Carol" by Charles Dickens, adapted by David Feldshuh and David Ball, Drummond Lab Theatre, Nov. 20 - 22 and Dec. 2 - 5 at 8 p.m.; Nov. 23 and Dec. 6 at 2:30 p.m.

**Risley Theatre**

"Pygmalion," George Bernard Shaw's classic story of Henry Higgins' transformation of Eliza Doolittle from flower girl to society lady and Eliza's coming into her own, directed by Dan Oliverio, Nov. 20 - 22 at 8 p.m. and Nov. 22 and 23 at 2 p.m. Tickets on Friday and Saturday evenings, \$4; all other performances, \$3.50 For reservations, call 255-5365.

**MISC**

**CUSLAR**

The Committee on US - Latin American Relations (CUSLAR) meet every Monday at 5 p.m. in the Commons Coffeehouse in Anabel Taylor Hall. For more information, call 255-7293.

**Intramural Bowling: Men, women, mixed**

Entry deadline: Dec. 4 at 4 p.m. in the Intramural Office, Helen Newman Hall. Play starts Jan. 26, 1987. Days of Play: Mon. 9:30 p.m.; Tues. 9:30 p.m., 11 p.m.; Wed. 11 p.m.; Thur. 9:30 p.m. Min. of six to enter. Mixed teams equal men and women. \$81 per team.

**Nursery School**

The University Cooperative Nursery School, Robert Purcell Union, has several openings available for 4 and 5 year olds in its afternoon program. For information call Robin at 273-6733.

**Ithaca Rape Crisis**

Ithaca Rape Crisis is accepting applications into its volunteer counselor training program. Interested women should be willing to make at least a one-year commitment. No previous experience is necessary. Contact Ithaca Rape Crisis, P.O. Box 713, Ithaca, NY 14851, 273-5589.

**Mann Library Book Sale**

Book sale to benefit the Mann Library Staff Lounge, Nov. 20 and 21, 9 a.m. to 4 p.m. in the Informal Study Room, first floor. Prices from \$.25 to \$.5. Special bid items Thursday only. Prices reduced by half Friday from 10 a.m. to 1 p.m.; reduced to \$1 per bag Friday at 1 p.m.

**Gymnastics Exhibition**

Cornell men's and women's gymnastics teams will give an exhibition Nov. 21 at 7 p.m. in Teagle Hall. Students \$1; adults \$2.

**Observatory Open House**

Fuertes Observatory, located on the hill behind Helen Newman Hall, will be open to the public every clear Friday night this fall from 8 p.m. until midnight. The planet Jupiter is spectacular this fall. Call the observatory at 255-3557 after 8 p.m. on clear Fridays for more information.

**Monte Carlo Night**

The Class of 1988 Council will hold its second annual Monte Carlo Night (Play money only!) Nov. 22 from 8:30 p.m. to 12:30 a.m. in the Memorial Room, Willard Straight Hall. A \$3 donation to benefit the Senior Citizens' Program at the Greater Ithaca Activities Center will be collected at the door. For more information, call Steve Werblow or Kris Corda at 255-5217.

**EARS**

Empathy, Assistance and Referral Service, EARS, provides short-term counseling for both callers and walk-ins. Located in 211 Willard Straight Hall, one floor below the Ivy Room. Telephone, 255-EARS. Open seven days a week, hours are 3 p.m. to 11 p.m. Sunday - Thursday and 7 p.m. to 11 p.m. Friday and Saturday. All services are free and completely confidential.

**International Teaching Assistant Training Program**

A free program open to international graduate students whose native language is not English and who are currently or will be TA's in the Spring '87 or Fall '87 semesters. Students will receive instructions in pronunciation, rhetorical strategies, and classroom dynamics; extensive use of videotapes to critique student presentations. Jan. 7 - 20, 9 a.m. to noon. For further information and applications contact Ingrid Arnesen, 255-5279 or 255-6349. Applications due Nov. 24.

**Willard Straight Announcements**

Music and Comedy: Robert Price will perform at 8:30 p.m. Nov. 20 in the Willard Straight Hall Memorial Room, followed by comedian Jose Arroyo for a special coffee-house. Free.



Photo by Charles Harrington

William Keeton, a sophomore in the College of Agriculture and Life Sciences, and Barbara Lok, animal health technician, Center for Research Animal Resources, vaccinate a pigeon.

## Homing pigeons vaccinated against deadly disease

Like other frequent travelers, Cornell's homing pigeons are getting their "shots" against communicable disease.

With mass vaccination of nearly a thousand birds a year, university biologists hope to demonstrate to other pigeon owners the effectiveness of a new vaccine against a virus that is spreading through flocks in the United States while conferring protection on their own valuable birds.

The disease is paramyxovirus type 1 or PMV-1, a virus believed to be related to Newcastle disease in chickens. First diagnosed in pigeons in Egypt and the Sudan in 1981, the disease quickly spread through Europe and into the United States.

There is no cure for the disease, which affects pigeons' nervous systems and kills as many as 50 percent of the infected birds. The virus does not spread to other avian species or to humans.

Most of the 100,000 pigeon owners in the United States keep their specially bred birds for competitive racing or bird shows, according to A. Irene Brown, research support specialist in the Section of Neurobiology and Behavior.

Cornell, however, is one of the world centers of bird orientation and navigation research where homing pigeons are studied for their ability to use a variety of cues in finding their way home.

More than 20 years of navigation research at Cornell are beginning to explain a mystery for pigeon fanciers and biologists alike: How do homing pigeons usually return hundreds of miles to home despite numerous natural and manmade obstacles? And why do the same pigeons become hopelessly confused at other times and are never seen again?

"We have a big investment in research birds that have participated in experiments over the years," Brown said. "Pigeons that become paralyzed from the disease either die or cannot be flown again."

Domestic pigeons are particularly susceptible to disease because of the way the birds are used, according to Kenneth H. Eske-lund, the veterinarian whose Maine Biological Laboratories developed the first

killed-virus vaccine against PMV-1. "Pigeon fanciers bring together pigeons from many lofts for racing and shows. This is ideal for transmitting the disease," Eske-lund said.

Whether PMV-1 is spreading to common street pigeons is uncertain, Brown said. Although they are the same species as the pampered pigeons and doves used for racing and showing, the feral pigeons that frequent city buildings and statues are somewhat tougher and probably more resistant to disease. Besides, Brown added, few people mourn or even notice when a street pigeon dies.

The PMV-1 vaccine was first tested on a thousand Cornell pigeons in 1984. Adverse reactions to the vaccine are extremely rare, Brown said. The latest series brings to nearly 5,000 the number of vaccinations at Cornell, and only four birds have been lost to shock, she noted. Although many pigeon fanciers have vaccinated their birds, hundreds of thousands of domestic pigeons in the United States have yet to receive the vaccine.

On Nov. 13, more than 900 pigeons belonging to Cornell were vaccinated by technicians from the Center for Laboratory Animal Resources. Assisting in the treatment were students William Keeton and Charles Taylor as well as local pigeon fanciers Dick Sullivan of the Elmira Racing Pigeon Club and Lester Conrad, superintendent of shops in Cornell's Maintenance and Service Operations.

The mass vaccination was conducted both to protect the birds and to encourage other pigeon owners do the same. Cornell is considered a leader in pigeon research by American racing pigeon fanciers, many of whom support university research through a program called Send a Pigeon to College.

Set free for a brief flight after the vaccination, the Cornell pigeons returned to their own pens apparently none the worse for their encounter with modern medicine. They have another appointment in December for the required booster "shot."

— Roger Segelken

## Seedless table grapes offer hope to growers

A new seedless table grape industry could bloom in the East and help rescue New York State growers from a depressed grape market, according to a Cooperative Extension specialist.

"We are not going to threaten California as the leading producer of seedless table grapes, but New York could capture 10 percent of the market," said Thomas J. Zabadal, an extension agent.

About 95 percent of the grapes grown in New York go to wines, juices and jellies. Grape prices being paid by East Coast wineries are holding steady or dropping, and many growers are selling their crop at prices below production costs, Zabadal said.

New marketing efforts such as the "Uncork New York" campaign can help stimulate wine-grape prices. But growers will continue to be dependent upon the grape-processing market unless they diversify into table grapes, he said.

According to Zabadal, grapes are the third most popular fruit after apples and bananas, and seedless grapes are preferred by nine out of 10 consumers.

The Eastern climate was believed to be

too harsh for growing seedless grapes. But a nine-year study that revised and applied techniques used in California has shown that it is possible to grow high-quality seedless table grapes in the Finger Lakes region of New York State, Zabadal said. He wrote about his research in recent issues of *Vineyard & Winery Management* magazine.

"We have dramatically altered the commercial outlook of several varieties and have gained new insights into varieties now under development for possible use," Zabadal said. "For the first time, cultural practices are known for an Eastern variety — Himrod Seedless — that permit reliable production of commercial-quality fruit.

"Still, it is sobering that almost no one in cool regions has commercial experience with the production, storage and marketing of seedless grapes. It will be four or five years before seedless grapes show a commercial return here."

Between 30 and 50 acres of seedless grapes have been planted in the Finger Lakes region. Zabadal is surveying several hundred grape growers to determine if there is support for a cooperative marketing

effort.

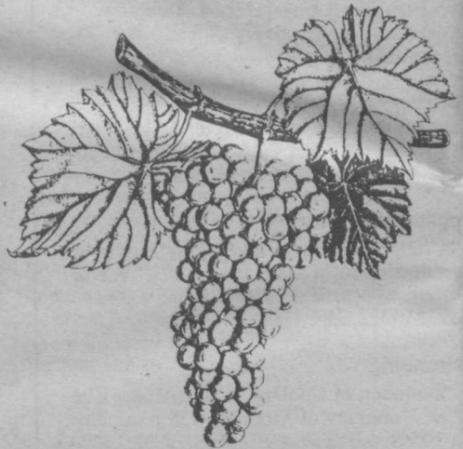
A special technique known as girdling is needed to develop adequate berry size for most seedless grapes. Girdling consists of removing rings of tissue around the vine's trunk to divert substances produced in the leaves to the clusters, resulting in larger grapes.

Because girdling restricts the flow of chemicals to the root system, it was thought that girdled vines would be too weak to survive Eastern winters, Zabadal said.

"We placed the girdles on the canes or branches of the vine instead of the trunk," he said. "We maintained large vine size and good yields of high-quality fruit for four growing seasons."

Other discoveries include methods for applying gibberellic acid sprays to increase berry size, thinning clusters to prevent excess cropping of the vines, and protecting against diseases such as black rot and downy mildew. These advances point to the possibility of successfully growing seedless grapes in the East, Zabadal said.

Eastern growers have two advantages over their California counterparts: the



cooler Eastern climate results in a more flavorful fruit and transportation costs are lower because of proximity to the major markets.

"Our research proves that profitable seedless table grapes can be grown in a cool climate," he concluded. "But it requires precise management and a long-term commitment. I hope there are growers bold enough to venture into this new viticultural frontier."

— Mark Eyerly

## Cornell's newest potato variety resists blights, nematode

A new potato variety with a high degree of resistance to several potato diseases has been developed here, bringing the promise of reduced chemical costs for growers.

Named Elba, the new variety is resistant to early blight, late blight and Verticillium wilt. It also is resistant to the golden nematode, a soil-dwelling potato pest that first was identified in New York more than four decades ago.

Among other traits, Cornell's newest potato does best in black organic soils called muck-land, giving higher yields than the varieties now in use.

Late blight devastated potato crops in Ireland in the mid-1840s, causing an unprecedented famine there. Historically, this

disease has been a major threat to the potato crop in the northeastern United States, although growers have fought the disease successfully with protective sprays for the last 40 years. More recently, early blight has become an important disease in New York.

Named after the town of Elba in western New York State, the new variety is more resistant to blights than any variety grown in the United States, according to H. David Thurston, a professor of plant pathology in the College of Agriculture and Life Sciences.

A series of field evaluations by William E. Fry, also a plant pathologist here, and Thurston showed that Elba required only

half the amount of chemicals normally needed for control of late blight. Thus, growers can reduce fungicide costs while minimizing the risk of loss of their crop to the diseases.

Another outstanding feature is Elba's ability to resist the golden nematode, a microscopic parasite in soil. First discovered on Long Island in 1941, the pest now is present in potato fields in Steuben, Wayne, Orleans and Livingston counties in upstate New York.

So far New York is the only state where the golden nematode has been found, but the pest could spread to other regions of the country if good management systems are not followed. When resistant varieties are

grown in rotation with non-host crops and susceptible varieties, the chances of spread or contamination are minimal.

Elba resists the golden nematode by killing female larvae that enter the root. Males survive but find no mates to reproduce. The nematode looks like a worm.

According to Robert L. Plaisted, a professor of plant breeding, it took 18 years to produce the Elba variety, an all-purpose potato especially suitable for boiling.

In more than 10 years of trials conducted in upstate New York's muck-land, Elba out-yielded Katahdin by up to 30 percent in small-plot trials. Katahdin has been one of the leading varieties in the Northeast.

Continued on page 11

# The arts on campus



At left, The Cornell Chorus performs in Sage Chapel.

Below, Bob Clendenin as Scrooge and the cast and crew from Theatre Cornell's 'A Christmas Carol,' opening Nov. 20 at Drummond Studio Theatre

At bottom, 'Dallas 1983-86' by Michael Teres and an untitled photograph from the collection of Paul F. Walter, on exhibit at the Johnson Art Museum.



Photos by Claude Leviet



# Job Opportunities

Thanksgiving Holiday Schedule: Requisitions received through noon Thursday, November 13, will be posted in the Thursday, November 20, 'Job Opportunities' list. Requisitions received after noon Thursday, November 13, through noon on Wednesday, November 26, will be posted December 4, due to the Thanksgiving Holiday (no Chronicle on

Thanksgiving, Thursday November 27). Hiring freeze begins December 4, 1986 through January 2, 1987.

utilization. Send cover letter and resume to Judi Pulkinen by November 28.

## Administrative and Professional

The minimum salaries listed are for recruitment purposes only.

### DEPUTY DIRECTOR (PA4611) Facilities Engineering

Will be University Engineer. Facilities Engineering includes all electrical, mechanical, structural, civil, and architectural design for repairs, maintenance, alterations, and plant operations. Responsible for project and energy management, space inventory, and plant long range planning. Provide technical standards and review for both maintenance and new construction. Direct \$2 million enterprise with 20 professionals and 20 support staff.

Requirements: BS in Engineering or Architecture, Master's preferred. Professional license strongly preferred. Extensive experience in facilities engineering, managing multi-discipline engineering functions. Highly developed technical, interpersonal and writing skills. Send cover letter and resume to Cynthia Smithbower by January 15.

**SENIOR ARCHITECT (P4612) Facilities Engineering** Organize and perform programming, design, estimating, construction, and contract documents, field inspection and construction management duties on a variety of projects. Make decisions related to alternatives and work performance to fulfill project programs, budgets and schedules through a section staff.

Requirements: Bachelor's degree in Architecture. Minimum 7 years relevant work experience. Must possess or be eligible for professional registration; demonstrated managerial and communication skills. Valid driver's license. Send cover letter and resume to Cynthia Smithbower.

### ASSISTANT TO THE DIRECTOR (PA4614) Personnel Services

Under general direction, work with Director and department managers, in development, implementation and communication of personnel policies and procedures, and a diverse range of projects requiring research, evaluation, analysis, writing and presentation. Active involvement in full range of employee and labor relations activities.

Requirements: Bachelor's degree or equivalent experience. Master's preferred. 4-6 years professional level experience - employee labor relations, contract negotiations, organizational development. Interpersonal skills. Verbal and written communication skills. Send cover letter and resume to Lee M. Snyder, 130 Day Hall by December 4.

### ADMINISTRATIVE MANAGER (PC467) Physics

Supervise non-academic staff; manage business and finances for instructional activities; plan and coordinate space renovation for department; coordinate teaching program and assistantship assignments; oversee planning and organization of public functions. Act in Chairman's absence.

Requirements: Bachelor's degree or equivalent. Minimum 2 years administrative experience, preferably in an academic environment. Good writing skills and familiarity with accounting, office procedures and personnel management. Familiarity with Physics helpful. Send cover letter and resume or call in confidence to Esther L. Smith (607)255-6874 by December 3.

### ARCHITECT I (P4613) Facilities Engineering

Perform Architectural design and drafting services for University renovations; participate and assist on major projects; and independently under take in-house projects.

Requirements: Bachelor's degree in Architecture. Minimum 1 year related experience or equivalent, excellent organizational, interpersonal, and communication (oral and written) skills, valid driver's license. Send cover letter and resume to Cynthia Smithbower.

### RESEARCH SUPPORT SPECIALIST II (PT4610) Entomology - Geneva

At Hudson Valley Laboratory, assist research entomologist in studies on biology and control of fruit insect and mite pests. Apply and evaluate chemical insecticides; supervise and train field assistants; maintain insect cultures in laboratory and greenhouse; maintain experimental orchard plantings.

Requirements: Bachelor's degree or equivalent in agricultural sciences. Experience in operation and maintenance of orchard spray equipment and other farm machinery. Send cover letter and resume to Judi Pulkinen by December 5.

### ADMINISTRATIVE SUPERVISOR (PT469) Agronomy

Manage day-to-day operations of Analytical Laboratory, supervising 7 technicians. Schedule work, train personnel and perform experimental development and modification work. Work closely with laboratory director and be part of decision making process.

Requirements: BS in Chemistry or equivalent. 3 years experience in wet chemical and instrumented analysis. Excellent organizational skills. 1-2 years supervisory experience. Familiarity with IBM-PC's microcomputers. Send cover letter and resume to Judi Pulkinen by December 12.

### RESEARCH SUPPORT SPECIALIST II (PT468) Natural Resources

Conduct and analyze research studies dealing with human tolerance of wildlife damage to homes, grounds, and crops. Analyze existing data using univariate and multivariate statistical techniques. Write reports of study findings and implications. Conduct field studies. 1 year appointment.

Requirements: MS in wildlife management or natural resources. Experience in conducting human studies related to natural resources

utilization. Send cover letter and resume to Judi Pulkinen by November 28.

### RETAIL MANAGER - ENTREPOT (P465) Campus Store

Responsible for purchases, sales, and merchandising of full line of retail products. Hire, train, and supervise staff. Coordinate advertising; develop and implement operational and long range plans for department. Administer all retail paperwork and work with store personnel to insure accurate and timely information sharing.

Requirements: Bachelor's degree or equivalent experience and education in retail management. Minimum of 3 years successful retail management experience. Experience must have included supervision of full time retail staff. Retail buying experience also required. Send cover letter and resume to Cynthia Smithbower by December 1.

### RESEARCH SUPPORT SPECIALIST I (PT461) NYC Cornell Cooperative Extension

Perform energy audits for small business and non-profit organizations. Provide educational material on energy conservation to target audiences. Communicate with small business owners, community leaders, etc. Supervise program staff and act as technical resource person. Review reports of subordinates. Perform heat loss surveys and combustion efficiency tests.

Requirements: Associate's degree (CORE course work in math and science or related fields). Supervisory, interpersonal and verbal and written communication skills required. May be required to take math and keyboarding proficiency test. Valid NYS driver's license. Cannot work for or own an energy related firm while in employ of Cornell Cooperative Extension in NYC. Send cover letter and resume to Ruth Allen, 15 E. 26th St., New York, NY by December 5.

### RETAIL MANAGER, Computer Department (PA261) Campus Store - Repost

Responsible for purchase, sales, and merchandising of computer retail products. Hire, train, and supervise staff. Coordinate advertising; develop and implement training program. Administer all retail paperwork and work with the store personnel to insure accurate and timely information sharing.

Requirements: Bachelor's degree or equivalent education, 3 years retail management experience. Retail buying experience also required. Send cover letter and resume to Cynthia Smithbower.

### TECHNICAL CONSULTANT III (PT071 and PT072) Theory Center - 2 Positions-Repost

Provide full range of consulting services to researchers using resources of the Cornell Theory Center, including the Production Supercomputer Facility, Theorynet, and possibly the Experimental Facility.

Requirements: Bachelor's degree with Graduate study in either computer science or one of the physical-biological-engineering sciences. 3-5 years related experience including some experience with mainframe computers, experience with VM-CMS and array processors desirable; fluency in at least 2 programming languages; demonstrated ability to work with complicated programs; strong written and interpersonal communication skills. Send cover letter and resume to Judi Pulkinen by December 4.

### BUSINESS MANAGER (PA4510) Office of Transportation Services

Reporting to Director, will coordinate and supervise business aspects of department. Assist in development of a \$3 million budget. Responsible for financial planning, cash handling, internal controls, accounting, budget, records and statistical analysis.

Requirements: Bachelor's degree in Business Administration or equivalent, Master's preferred. Strong background in accounting, financial management, understanding of on-line computing and micro computer operations. Send cover letter and resume to Cynthia Smithbower by December 1.

### SENIOR TECHNICAL CONSULTANT (PT455) Theory Center

Support graphics applications running on Cornell's National Supercomputer Facility which are interfaced to microcomputers or terminals on local or national computer networks. Coordinate distributed graphics program, providing expert advice and guidance to leading scientists using supercomputer facility.

Requirements: Master's degree or equivalent with related computer courses. 3-5 years related experience. Excellent communication, interpersonal, organizational, and planning skills. Detailed knowledge of mainframe graphics software required. Experience with microcomputers, especially IBM PCs or Macintoshes, required. Ability to develop graphics programs on mainframe or microcomputers required. Send cover letter and resume to Judi Pulkinen by November 28.

### SYSTEMS PROGRAMMER II (PT451) Theory Center

Under general supervision, perform systems analysis, design, programming, and documentation for projects in Cornell National Supercomputer Facility. Provide software support and technical leadership for both users and other Theory Center staff.

Requirements: Master's degree or equivalent with a wide range of programming experience utilizing high-level languages. Demonstrated ability to work in a scientific or large-scale computing environment. IBM mainframe (VM-CMS) and Fortran experience a plus. Send cover letter and resume to Judi Pulkinen by November 28.

### RESEARCH SUPPORT SPECIALIST I (PT4511) Clinical Sciences

Support the woodchuck hepatitis project for research on liver and kidney diseases. Create, maintain, and analyze computer records of test results using statistical software packages.

Requirements: Bachelor's degree in chemistry or biology. Training and laboratory experience. Statistics coursework desired. Independent laboratory experience necessary.

Ability to work and meet deadlines desirable. IBM PC/XT computer experience essential. Ability to restrain and obtain blood samples from small animals desirable. Send cover letter and resume to Judi Pulkinen by November 28.

### BUSINESS MANAGER (PA456) Patents and Licensing

Responsible for business functions of Cornell Research Foundation and Patents and Licensing office. Involves budget forecasting and preparation of financial reports. Responsible for approval of expenditures and distribution of royalty income. Works closely with Director on financial matters.

Requirements: Bachelor's degree or equivalent. 2-4 years accounting and business experience; familiar with PC's-Lotus spreadsheet; ability to communicate with broad spectrum of personnel. Send cover letter and resume to Cynthia Smithbower by December 1.

### HEALTH ASSOCIATE I (PA452) University Health Services

Using health associate-physician approved guidelines, provide primary health care to university students, faculty and staff members. Emphasis is placed on continuity of care, health education, health maintenance and preventive care.

Requirements: NYS RN/PA license and graduate of an accredited NP/PA program required. Experience and professional certification preferred. Send cover letter and resume to Cynthia Smithbower by December 1.

### VOLUNTEER COORDINATOR (P4512) University Health Services

Work with Sex Counselor-Educator, planning and conducting volunteer training; selecting, scheduling, supervising and evaluating volunteers; counseling. Substitute medical assisting. 9 and a half month position.

Requirements: Bachelor's degree or equivalent preferred. Family planning, clinical and counseling experience. Supervision and training of volunteers. Knowledge of CGSS operation very desirable. Send cover letter and resume to Cynthia Smithbower by November 21.

### RESEARCH SUPPORT SPECIALIST II (PT065) Physiology-Repost

Design and conduct, in collaboration with principal investigator experiments directed towards cloning and characterization of intestinal DNAs and genes. Study of control of gene expression during development and differentiation of intestinal epithelium. Will assist in preparation and co-authoring publications.

Requirements: Master's degree in biology with emphasis in biochemistry and molecular biology, or genetics. Some experience in recombinant DNA techniques such as mRNA purifications, DNA cloning and sequencing required. Send cover letter and resume to Judi Pulkinen.

### HEALTH ASSOCIATE (PA295) University Health Services-Repost

Primary care in reproductive health and family planning, and in general medicine. 9 month position.

Requirements: NYS RN/PA license, graduation from accredited NP/PA program, and professional certification required, Master's degree preferred. Experience in men's and women's reproductive care. Send cover letter and resume to Cynthia Smithbower.

### COMMUNICATIONS ENGINEER (PA447) Computer Services-Network Communications

Design and implement new and monitor old campus-wide communications networks, do performance and capacity analysis; provide consulting to campus customers and other computer professionals; do planning and update communications software; perform high-level problem diagnosis-resolution.

Requirements: Bachelor's degree in Electrical Engineering, Computer Science or related field. 3-5 years experience with digital and analog hardware, communications software and protocols (EP, ASYNCH, RJE, BSC 3270). Considerable knowledge of local area networks, demonstrated excellent written and oral communications and interpersonal skills. Send cover letter and resume to Cynthia Smithbower.

### STAFF WRITER II (PC316) University Development-Repost

Create and write promotional brochures, articles, proposals and letters related to fund raising or public relations. Carry out special communication assignments and develop communication strategies working with various University faculty and staff.

Requirements: BA degree in English, Journalism, marketing or communication arts. Minimum one year experience as a writer in fund raising, advertising, public relations or higher education. Send cover letter, resume and 3 writing samples or call in confidence to Esther L. Smith.

## Clerical

CURRENT EMPLOYEES should submit an employee transfer application, resume and cover letter. Also, if you are interested in a career development interview, please contact Esther Smith at 5-6874 to schedule an appointment.

OUTSIDE APPLICANTS should submit an employment application and resume. Applications and resumes typically remain active for three months; typing test scores remain on file for one year. The clerical section uses an automatic referral system whereby outside applicants are referred to positions for which they are considered qualified and competitive. Unless otherwise advertised, requests to be referred to a specific position will not be

accepted. Applicants who are referred to a department for review will be contacted by the department if an interview is necessary.

NOTE: OPEN INTERVIEWING FOR OUTSIDE APPLICANTS interested in clerical positions will be conducted every Wednesday afternoon from 1:00 - 6:00 p.m. in our East Hill Plaza Employment Office. No appointment is necessary, however a short wait may be required. Call Esther Smith or Lauren Worsell if you have any questions. DUE TO THE HOLIDAY SEASON, NO CLERICAL INTERVIEWS WILL BE CONDUCTED AT EAST HILL PLAZA WEDNESDAY, NOVEMBER 26, DECEMBER 17, 24, 31, 1986, AND JANUARY 7, 1987. THEY WILL RESUME ON JANUARY 14, 1987.

### OFFICE ASSISTANT, GR19 (C4611) Finance and Business Office

Assign vendor numbers to accounts payable vouchers; maintain computerized travel advance system; process state fund requisitions; provide back-up support for cashier; process weekly postage charges.

Requirements: H.S. diploma or equivalent. Additional accounting, personal computer or terminal input training desirable. Several years general office experience required. Familiarity with Cornell accounting system desirable.

Minimum Bi-Weekly Salary: \$457.09

### SECRETARY, GR18 (C466) Cooperative Extension Administration

Type correspondence, reports and other materials from hand-written copy and dictaphone; office filing. Other duties as assigned.

Requirements: H.S. diploma or equivalent. Heavy typing. Minimum 2 years office experience dealing with people. Knowledge of office equipment including Xerox 860 Word Processor, IBM Computer and typewriter. Strong clerical, organizational and writing skills and attention to detail. Ability to set priorities and to work in a complex active environment.

Minimum Bi-Weekly Salary: \$431.43

### SECRETARY, GR18 (C462) Environmental Engineering

Input, format, revise and prepare final printouts of highly technical (with math and scientific equations) manuscripts, tables, classwork, correspondence, form letters and other projects using personal computer (BRIT software); handle inquiries (in person and phone). Other duties as assigned.

Requirements: Associate's degree in secretarial science desirable. Heavy typing. Minimum 2-3 years experience. Knowledge of word processing. Knowledge (or willingness to learn) BRIT scientific software. Excellent interpersonal, communication, editing and organizational skills. Experience working with students. Ability to work in a complex active environment.

Minimum Bi-Weekly Salary: \$431.43

### OFFICE ASSISTANT, GR17 (C468) Purchasing

Process and type requisitions; process invoices; maintain records; assist departments, vendors, and accounting with problems relating to orders.

Requirements: H.S. diploma or equivalent. Light typing. Minimum 1 year office experience desirable. Accounting and filing skills. Legible handwriting essential.

Minimum Bi-Weekly Salary: \$409.53

## General Service

Outside applicants for general service positions should apply in person at the East Hill Plaza Employment Office, Monday - Friday, 9am - 12 noon. Phone requests and cover letters are not accepted unless specified. Regular Cornell employees should submit an employee transfer application.

### DRAFTER, GR19 (G461) Facilities Engineering

Responsible for drafting and updating floor plans and space related data for the Facilities Inventory Section.

Requirements: H.S. diploma or equivalent plus 2 years drafting experience required; Associate's degree in Architecture or Construction Technology preferred.

Minimum Bi-Weekly Salary: \$457.09

### CUSTODIAN, SO16 (G465) Unions and Activities-Endowed

Provide custodial care of assigned area including mopping, dusting, and vacuuming. 5:30 p.m. - 2:00 a.m.; Wednesday - Sunday.

Requirements: H.S. diploma or equivalent. Able to operate a variety of heavy power equipment, lift 50 lbs., and climb a 8' ladder. Able to follow instructions and work efficiently with minimal supervision. Experience in custodial work preferred.

Minimum hourly rate: \$5.14

### HEAD CUSTODIAN, SO17 (G401) Unions and Activities-Endowed; Repost

Maintain building cleanliness; repair and replace equipment and furniture; set-up rooms and equipment; schedule and oversee work of custodians in assigned area. 10 month position; some nights and weekends required.

Requirements: H.S. diploma or equivalent. Valid NYS Class 5 driver's license. 2 years experience in custodial and maintenance fields required; supervisory experience preferred. Strong communication and interpersonal skills essential.

Minimum hourly rate: \$5.42

### OFFICE ASSISTANT, GR19 (G393) Campus Store - Repost

Under general supervision, responsible for ordering technical and reference books, timely process of orders and stock shelves, interact with technical reference book vendors and handle majority of customer related issues. Monday - Friday, 8:30 a.m. - 5:00 p.m.;

November 20, 1986  
Number 46  
University Personnel Services  
Cornell University  
160 Day Hall  
Ithaca, New York 14853-2801

occasional weekends.

Requirements: H.S. diploma or equivalent Associate's degree or equivalent preferred. 3 years retail experience. Experience in text books-tradebooks helpful. Ability to operate or learn to operate cash register. Ability to work under pressure. Strong communication interpersonal, and organizational skills. Ability to lift 50 lbs.

Minimum Bi-Weekly Salary: \$457.09

## Technical

Outside applicants for technical positions should submit an employment application, resume, transcripts and a list of laboratory techniques and equipment, or computer languages and hardware with which you are familiar. This information will be kept active for six months. For each position that you are qualified and wish to be a candidate for, submit a cover letter, including position title, department and job number, to Judi Pulkinen.

Current Cornell employees should submit an employee transfer application, resume and cover letter. Outside applicants with training or experience in the following areas are encouraged to apply: biochemistry, chemistry, microbiology, electronics, physics and licensed animal health technicians.

Minimum Bi-Weekly Salary: \$457.09

### RESEARCH ASSISTANT, (T462) Boyce Thompson Institute

Electron microscopy assistant to conduct studies on scanning and transmission electron microscopy of animal and plant specimens. Will work independently and be responsible for daily routine operation of EM service laboratory.

Requirements: Bachelor's degree in biology with courses in microbiology and biochemistry, or equivalent knowledge and experience. Training in routine electron microscopy techniques desirable. Contact Dr. Robert B. Granados, Boyce Thompson Institute, Tower Road, Ithaca, NY 14853. 257-2030.

Minimum Starting Salary: \$12,000

### TECHNICIAN, GR20 (T454) Pomology

Design, implement and maintain field experiments, collect data, computerized statistical analysis, travel to NYS field sites, supervise temporary labor, maintain greenhouse plants, develop photographic film.

Requirements: Bachelor's in Plant Science or related field; course work in statistics, math or computer science preferred, driver's license, and pesticide applicators license required. Attention to detail and safe handling of laboratory chemicals, pesticides and fertilizers. Good interpersonal skills and experience with small farm equipment desired. Send cover letter and resume to Judi Pulkinen by November 28.

Minimum Bi-Weekly Salary: \$482.33

### TECHNICIAN, GR19 (T414) Section of Physiology - Repost

Provide technical help in preparation and characterization of monoclonal antibodies to pig and human intestinal brush border membrane proteins, preparation of cell culture items of general use and ordering of lab supplies.

Requirements: BS in Biological Sciences. Knowledge of cell culture and sterile techniques, in particular culture of hybridomas, preferred. Send cover letter and resume to Judi Pulkinen by November 28.

Minimum Bi-Weekly Salary: \$431.43

### TECHNICIAN, GR21 (T401) Veterinary Microbiology-Baker Institute - Repost

Perform research concerned with studying canine osteoarthritis and hip dysplasia. Conduct experiments and data analysis of biochemical assays, using ELISA assays, chromatography, electrophoresis, tissue culture, radioisotopes, RNA isolation, flow cytometry and dot hybridization techniques. Some literature reviewing. Laboratory maintenance.

Requirements: Bachelor's degree in biology or chemistry required. 1-2 years of laboratory experience preferred. Send cover letter and resume to Judi Pulkinen by December 4.

Minimum Bi-Weekly Salary: \$512.32

### TECHNICIAN, GR18 (T371) Biochemistry, Molecular and Cell Biology - Repost

Provide technical assistance by purifying and characterizing cellulases and sequencing DNA.

Requirements: B.S. in Biochemistry plus related experience. Knowledge and experience with enzymology. Experience with DNA isolation and sequencing. Send cover letter and resume to Judi Pulkinen by December 5.

Minimum Bi-Weekly Salary: \$431.43

### CHESS OPERATOR, GR24 (T253 and T252) Chess - Repost - 2 Positions

Provide technical assistance to users on experimental radiation beams. Implement safety codes. Responsible for any malfunctions in CHESS system and software problems associated with instrument control. May assist in experimental programs. Evening and weekend hours required.

Requirements: B.S. degree or equivalent in technical field such as physics or engineering. Good mechanical and lab skills. Familiarity with vacuum equipment. Send cover letter and resume to Judi Pulkinen by December 12.

Minimum Bi-Weekly Salary: \$607.21

### TECHNICIAN, GR20 (T124) Neurobiology & Behavior-Repost

Assist in research on neurobiological basis of animal behavior. Assist in design of experimental and observational procedures, including scheduling, analyses, result preparation and administration of lab, including supervision of undergraduate students.

Requirements: Bachelor's degree in some field of experimental biology. Experience in a research laboratory environment. Familiarity with electrophysiological and neurobiological

**New potato** *Continued from page 8*

Despite its high-yield capacity, Elba has two drawbacks. The first is that it develops brown spots in the flesh if grown in warmer areas such as southern Pennsylvania, New Jersey and Long Island. Such spots are caused by a physiological disorder called internal necrosis, which is "purely a cosmetic problem, but it turns off consumers," Plaisted said.

Because of this condition, Elba is not recommended for Long Island and New Jersey, southern Pennsylvania and areas further south. But it should do well anywhere else in the Northeast.

Elba is the third in a series of new golden-nematode-resistant varieties developed under an accelerated breeding program at Cornell. The work has led to two new varieties, Rosa and Hampton, with more on the drawing board.

Eleven acres of certified seed have been produced this year, perhaps enough for growers as well as for home gardeners to become acquainted with the Elba variety.

— Yong H. Kim

**United Way campaign approaches its goal**

Tompkins County's United Way campaign has passed the two-thirds mark, according to general campaign chairman David Drinkwater, Cornell's dean of students. About \$750,000 of the \$1.14 million goal has been raised, Drinkwater reported at a campaign meeting Nov. 14.

At Cornell, the campus campaign has raised \$203,557 as of Nov. 11. That is about 52 percent of the university's \$390,000 goal. One-half of the pledge cards distributed on campus have been returned.

"I urge campaign workers at all levels to wrap up the campaign by our Thanksgiving target date," Drinkwater said.

In addition to the education division, campaigns in the business and industry and special accounts areas are continuing, he added.



A quiet walk on the Quad.

**Africa** *Continued from page 1*

ification and population growth is overtaking the capacity of governments to provide such basic services as health and education.

"Many countries have declining levels of per capita food production, increasing unemployment and growing income disparities."

Help has poured into Africa since television brought its drought and famine to world attention. But problems continue to mount.

"Despite major development efforts, the gap in the standard of living between most areas of the continent and the rest of the world is widening," an institute planning paper says.

Early priorities include a search for six new faculty members expert in Africa, sending students and teachers to Africa for field work, awarding scholarships for Africans to do graduate studies at Cornell, adding books on Africa to the library, and exchanging staff with teaching, research and policy institutions in Africa.

African officials, scientists and scholars will be invited to Cornell to help the university community better understand the sub-Saharan region and its institutions.

When fully organized, the Institute for African Development will involve about 50 faculty members and 200 graduate students, visiting fellows and research associates.

Some work has started. Cornell experts are studying nutrition in Kenya, Botswana, Lesotho and Malawi; regional planning in Kenya and Tanzania; and animal science in

Ethiopia.

A 1985 survey listed more than 50 Cornell faculty members who were involved in teaching or research on development in Africa. The new institute will draw this work together.

More than 750 Africans have studied at Cornell in the past 10 years, according to the Foreign Students Office. The institute hopes to attract more African students, including mid-career professional workers.

Initially, representatives of some seven Cornell groups that deal with Third World problems will work with the African Institute.

They are: Center for International Studies, Africana Studies and Research Center, International Agriculture Program, International Nutrition Program, International Population Program, Program on International Studies in Planning and Rural Development Committee.

Africa's food shortages, increasing unemployment, national debts and declining trade "are pushing many African nations toward disaster," a Cornell study says.

Diseases virtually eliminated elsewhere in the world still plague Africa, where many people are chronically fatigued because of overwork, malnutrition and forced migration.

To finance its African initiative, Cornell will seek assistance from foundations, corporations, government agencies and alumni.

— Albert E. Kaff

**Free speech** *Continued from page 1*

demonstrations, including attendant symbolic means of expression.

"In reviewing such matters, the commission will be cognizant of federal and state laws and bear in mind the ultimate and nondelegable responsibility of the Board of Trustees to preserve the peace and good order of the campus in the interests of all members of the immediate campus community, as well as alumni, friends and visitors."

Members of the commission are Barcelo; Joseph Bugliari, dean of faculty; Henry Granison, a law student; Mary Katzenstein, a professor of government; Walter LaFeber, a professor of history; Paul McIsaac, a professor of engineering; Roger Morse, chairman of the University Assembly; George Peter, an employee-elected trustee; Hillary Rossman, an undergraduate student; and James W. Spencer, vice provost.

Spencer replaces University Counsel Walter Relihan Jr. who has asked not to serve on the commission given potential concern that as legal advisor to the president he would be a party to pending judicial proceedings involving campus demonstrations. Rhodes appointed LaFeber after discussion with commission members and at the suggestion of several senior faculty.

— Martin B. Stiles

**Seed research highlighted**

Seed producers, dealers, processors and other members of the seed industry in the Northeast will hear Cornell scientists discuss new research developments and major trends affecting the industry at the 48th Cornell Seed Conference in the Ithaca Holiday Inn Nov. 20-21.

The meeting will feature a series of talks highlighting Cornell research activities ranging from agricultural biotechnology to chemical and biological methods of protecting seeds from disease and insects.

Most of the speakers will be scientists with the College of Agriculture and Life Sciences and the Agricultural Experiment Station at Geneva.

Topics include new seed-coating technologies, biological seed treatment, biotechnology in plant breeding, breeding for resistance to new alfalfa diseases, and Cornell breeding programs involving potato, corn, wheat, oats, barley and hay crops.

Also on the agenda are the financial status of farmers in New York State, long-term trends and projections for field crops, patents for new varieties, breeding lines and plant genes, integrated crop management, and diseases affecting corn, cucumbers and squash.

Carl F. Gortzig, chairman of the Department of Floriculture and Ornamental Horticulture, will be the banquet speaker at 8:15 p.m. on Nov. 20. He will speak on trends affecting New York's flower, turf and landscape industries.

— Yong H. Kim

**Central America** *from page 3*

"What he needs to do is to achieve reforms but he is undermined by his inability to end the war," Sharpe said.

"To keep his country afloat, he needs U.S. military aid, but the aid comes with strings — do not negotiate with the guerrillas. He is hooked on a kind of dangerous drug prescribed by Washington."

Speaking of U.S. activities in Central America, Eldon Kenworthy, a government professor at Cornell, said all major economic powers have exercised spheres of influence in their parts of the world.

"We shouldn't think we're the only bastards," he said.

Thomas Holloway, director of Cornell's Latin American Studies Program, arranged the symposium and served as moderator.

— Albert E. Kaff

**Job Opportunities**

*Continued*

techniques including physiological anatomy, histology, ethology, electronics and computer programming. Hand work; skilled in use of laboratory equipment and tools. Send cover letter and resume to Judi Pulkinen by November 28.

Minimum Bi-Weekly Salary: \$482.33

**Part-Time**

**TECHNICAL ASSISTANT, GR17 (T461)** Poultry and Avian Sciences  
Collect and prepare tissue samples and process antisera; set up and run serological assays; and cell viability counts. Handle live experimental animals (chickens, rabbits or mice), may assist in cell culture work. Until 9-30-87.

Requirements: Associate's degree in Biology or related fields, Bachelor's degree preferred in Biology or immunology. Some lab experience. Knowledge of chemistry, immunology or hematology desirable. Experience in microscopy, electrophoresis, and histology preferable.

Minimum Bi-Weekly Equivalent: \$409.53

**BUS DRIVER, SO20 (G462) CU Transit, Inc.** - Endowed  
Drive bus on campus, TomTran routes, and charter trips. Check vehicle for proper operating condition; provide information and directions. Monday - Friday; 20 hours.

Requirements: H.S. diploma or equivalent. NYS Class II driver's license required. Pre-employment physical required. 3-6 months current bus driving experience. Apply in person at the East Hill Plaza Employment Office, Monday - Friday, 9:00 a.m. - noon.

Minimum hourly rate: \$6.34

**DRAFTER, (G466) CLEARS**  
Assist in project work involving drafting, design and implementation of natural resource factor maps, and development of land

use and resource information. Operate a Dizado blueprint machine, prepare materials for shipment, other duties as assigned. 20 hours per week; 6 month appointment.

Requirements: Basic working knowledge of drafting tools, working knowledge of map preparation preferred. Background in art, graphics, cartography, landscape architecture, natural resources, land use, or soils. Apply in person at the East Hill Plaza Employment Office, Monday-Friday, 9:00 a.m. - noon.

**RECEPTIONIST-SECRETARY, GR17 (C467) Extension Administration**  
Schedule appointments, conferences, meetings on and off campus; make travel arrangements; type; greet visitors; answer phones. Regular, part-time, flexible - 25 hrs.

Requirements: H.S. diploma or equivalent. Heavy typing. Ability to work independently, operate IBM selective typewriter, telephone, dictaphone, copies and other office machinery. Some computer work.

Minimum Bi-Weekly Equivalent: \$409.53

**Temporary**

**TEMPORARY OPPORTUNITIES:** Individuals qualified for temporary work and interested in clerical/secretarial: if you have experience or skills, and are interested in learning more about these opportunities, please call Lauren Worsell at 255-5226.

**ACCOUNTS ASSISTANT (C461) Veterinary Medical Teaching Hospital**  
Record daily charges for hospitalized cases in assigned clinic, prepare final vouchers at discharge, provide Saturday coverage as needed.

Requirements: H.S. diploma or equivalent plus some college with accounting or bookkeeping. Minimum 2 years accounting or bookkeeping experience necessary. Billing ex-

perience in a medical setting desirable. Call Laurie Worsell at 255-7044.

**TECHNICIAN (T442) Entomology**  
Visit dairy farms at points within NYS and survey NE and aid farmers in completing a survey questionnaire related to pest status and pesticide use. Full-time, temporary for 6 months.

Requirements: B.S. degree; NYS driver's license. Experience related to agricultural science. Send cover letter and resume to Judi Pulkinen.

**COMPUTER CONSULTANT (T432) Division of Nutritional Sciences-Repast**

Serve as primary computer expert for international grant. Develop a microcomputer hardware and software package for data entry and analysis of a large data set. Full-time, 4 month position.

Requirements: Bachelor's degree required. Knowledgeable in micro computer hardware systems, including d-base III or r-base 5000 data management systems. Ability to purchase and set-up equipment, make adaptations to hardware and software, train users and write technical documentation. Travel to Bangladesh is possible. Send cover letter and resume to Judi Pulkinen.

**OFFICE ASSISTANT (C449) Ornithology**  
Post, copy, mail, and file vouchers, orders and other paperwork processed through Cornell system (statutory and endowed). Assist in preparing deposits and reconciliations of some accounts. Other duties as assigned.

Requirements: H.S. diploma or equivalent. Knowledge of accounting-bookkeeping helpful. Cornell experience useful. Ability to learn quickly. Emphasis on accuracy, attention to detail required. Call Laurie Worsell at 255-7044.

**SALES CLERK (C433) Ornithology**  
General sales duties at Crow's Nest Bookshop during weekends and holidays. Open up Laboratory, register sales, answer phones, secure Lab when closing, feed birds, answer basic bird questions, oversee Lab building. Occasional Monday nights (3 hours) during seminars, alternating weekends and holidays. Part-time, temporary until October

21, 1987.  
Requirements: H.S. diploma or equivalent. Light typing. Previous sales experience required. Knowledge of birds helpful. Good interpersonal skills. Enjoy dealing with people. Call Laurie Worsell at 255-7044.

**OFFICE ASSISTANT (C3914) Veterinary Medical Teaching Hospital**

Answer telephones in Small Animal Clinic Communications Center, set up appointments using Hospital computer system, respond to routine questions, refer callers to appropriate staff member. Type letters to clients and refer veterinarians. Other duties as assigned. Part-time, casual. Monday through Friday, 3:00 to 6:00 p.m., Saturday, 8:00 a.m. to 12 noon.

Requirements: High school education or equivalent. Knowledge of medical terminology and medium typing essential. Must demonstrate strong organizational, interpersonal, and communication skills. Call in confidence to Laurie Worsell at (607) 255-7044.

**Academic**

**CLINICAL PATHOLOGIST (A462) Pathology - NYS College of Veterinary Medicine**

Send curriculum vitae, 5 letters of reference and statement of long-term career goals to Fred Quimby, VMD, PhD, Chairman, Search Committee for a Clinical Pathologist, NYS College of Veterinary Medicine, 221 Vet Research Tower, Ithaca, NY 14853-6401. (607)253-3520.

**ASSISTANT PROFESSOR, TENURE TRACK (A461) Division of Biological Sciences**

Contact Dr. F. Harvey Pough, Division of Biological Sciences, 200 Stimson Hall, Cornell University, Ithaca, NY 14853.

**ASSISTANT PROFESSOR OF LINGUISTICS (A451) Modern Languages & Linguistics**

Dossier including CV, sample publication, and 3 letters of recommendation should be sent to Sally McConnell-Ginet, Chair, DMLL, Morrill Hall, Cornell University, Ithaca, NY 14853. Applications received by December 15 will receive preferential treatment.

**LECTURER-SENIOR LECTURER IN SPANISH (A452) Modern Languages & Linguistics**

Send CV and 2 letters of recommendation to Spanish Search, DMLL, Morrill Hall, Cornell University, Ithaca, NY 14853. Applications received by December 15 will receive preferential treatment.

**LECTURER-SENIOR LECTURER IN CHINESE (A453) Modern Languages & Linguistics**

Send CV and 2 letters of recommendation to C.-T. James Huang, Chinese Search, DMLL, Morrill Hall, Cornell University, Ithaca, NY 14853. Applications received by December 15 will receive preferential treatment.

Jobs listed here are prepared by Staffing Services. The list of current vacancies is part of the university's commitment to promotion from within, affirmative action, and equal opportunity employment.

Employees seeking transfer to other jobs should contact Staffing Services for appropriate procedures and forms.

Employment applications are available at Cornell's employment office, East Hill Plaza (Judd Falls and Ellis Hollow roads), 9 a.m. to noon Monday through Friday. Mail completed forms to Cornell Staffing Services, 160 Day Hall, Ithaca, N.Y., 14853-2801.

This listing also is on CUINFO, the university's computerized info for the Information and Referral Center in Day Hall and other campus locations.

# SPORTS

And now there is one . . . just one more game to decide who will take the Ivy League crown.

Coach Maxie Baughan's troops will take on undefeated Pennsylvania this Saturday at 1 p.m. at Schoellkopf Field. It will be the first time since 1968 that two undefeated teams will play one another in the final game for the championship. Harvard and Yale battled that year and played to a 29-29 tie.

This year, Cornell will be vying for its first Ivy League championship since it shared the crown in 1971, and the school's first solo Ivy crown since the league's inception in 1956.

Penn has won 10 straight games and seven Ivy contests over the last two seasons and will be going for its fifth consecutive title. Cornell, now 8-1 overall, 6-0 in Ivy action, is coming off a 28-0 shutout of Columbia, its third shutout of an Ivy opponent this year. This is the first time in 30 years that the gridders have whitewashed three Ancient Eight opponents in a single campaign.

Saturday's contest should be an exciting one as it pits the league's number one scoring offense (Penn) against the best scoring defense (Cornell).

## Hockey

The hockey team officially christened the 1986-87 winter season last weekend with a win and a loss. The defending ECAC champions fell to a surprisingly tough Army squad, 6-5 on Friday night. The Red rebounded the next evening, though, to pound Princeton, 7-4. As expected, junior co-captain and All-American Joe Nieuwendyk came out with a roar in the home openers, scoring five goals and three assists over the span of the weekend.

Head Coach Lou Reycroft tested two goaltenders in the games — senior Jim



Photo by Claude Levett

The hockey team lost to Army last Friday but defeated Princeton on Saturday.

Edmands on Friday night and sophomore Darin McInnis on Saturday. Edmands had a busy evening against the Cadets, turning away 32 shots, while his Army counterpart made 34 stops. McInnis faced 29 shots against Princeton (only 12 in the first two periods) and made several key saves when the Red was shorthanded.

The Red takes to the road next to compete in two key ECAC matches against St. Lawrence and Clarkson.

## Cross country

The men's and women's cross country teams closed out their seasons with sound performances last weekend at Lehigh University. The men harriers placed ninth out of 37 teams in the District II\*qualifiers and 17th out of 49 teams in the IC4A championships while the women were fifth out of 22 in District II and eighth out of 36 in the ECAC championships.

## Volleyball

The women's volleyball team closed out its season with a third place finish at the Ivy League championships at Harvard last weekend. The Red defeated Ivy foes Yale, Harvard and Brown on its way to that standing. The squad finished with a 22-11 overall record, its eighth consecutive non-losing season.

## Basketball

The men's basketball team will participate in an exhibition game on Sunday night at 6 p.m. in Barton Hall. The Red will face Athletics East, a group of ex-collegiate basketball players.

The squad, under first-year coach Mike Dement, boasts All-America guard John Bajusz, a two-time first team All-Ivy selection and honorable mention All-American. He led Cornell in scoring a year ago with an 18.4 scoring average and needs just 254 points to become the all-time leading scorer in Cornell history.

Bajusz will be joined on the backcourt by senior Derek Williams and sophomore Josh Wexler. Williams led the Red in assists his sophomore year, while Wexler took that honor last year with 88, the most ever by a Cornell freshman.

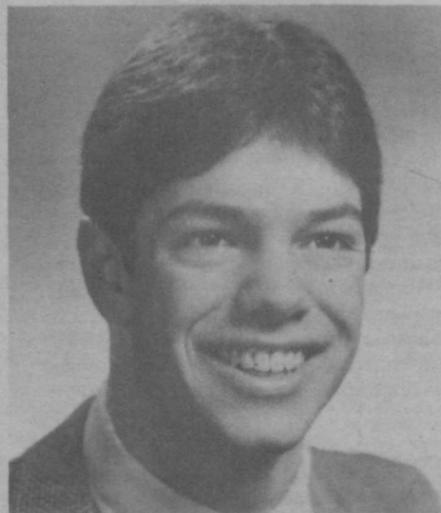
Last year, the Red came within grasping distance of the Ivy League title and racked up its third consecutive winning season.

## Other action

The freshman football team closed out its season with a 13-0 loss to Columbia. The frosh end their campaign with a 3-3 overall slate.

The men's and women's fencing teams will compete in the Cornell Open on Nov. 22 at Helen Newman Hall.

The women's hockey team gets its season underway Nov. 21 at Lynah Rink at 7:30 p.m. when it takes on McMaster.



Jim Frontero

## Red Key honors two

The Red Key Athletic Honor Society selected its Athletes of the Month for October and honored senior football player Jim Frontero and junior soccer goaltender Sherrir Chocola.

Frontero, a defensive cornerback on the 8-1 Big Red, leads Cornell in interceptions with six. His 74-yard touchdown return of a interception against Brown proved to be the back-breaker in Cornell's 27-9 victory. He was named to the ECAC Weekly Honor Roll for his performance.

Chocola, a goaltender on the women's soccer team, had an excellent season for the 10-2-2 Big Red. She posted a 0.79 goals against average and turned aside 72 of 832 shots on goal for an .867 save percentage. Chocola recorded five shutouts on the season and two in Ivy League play.



Sherrir Chocola

<b>Friday 11/21</b>
Men's Junior Varsity Hockey - Canton ATC, 4:30 p.m.
Women's Hockey - McMaster, 7:30 p.m.
Women's Polo - Connecticut, 7:30 p.m.
<b>Saturday 11/22</b>
Varsity Football - Pennsylvania, 1 p.m., Schoellkopf Field.
Men's Fencing - Cornell Open.
Women's Fencing - Cornell Open.
Men's Junior Varsity - Canton ATC, 1:30 p.m.
Men's Polo - Connecticut, 8:15 p.m.
<b>Wednesday 11/26</b>
Men's Junior Varsity Hockey - North Country CC, 1:30 p.m.

## Holiday bus schedule

There will be no campus bus service Nov. 27 and 28. The AB Local, B-Lot-Collegetown, West Campus and East Ithaca route and Northeast Transit Route I and A-Morrisson will be suspended for the Thanksgiving holiday.

Faculty and staff members whose vehicles are registered with the Traffic Bureau may park on campus on these days.

The Blue Light Bus will suspend operation at the end of the evening Nov. 25 and resume service Dec. 1.

The Northeast Route II, Ithaca-Dryden Transit, Ulysses Transit and Newfield Transit will run on their regular schedules Nov. 28. There are no Tomtran services Thanksgiving Day.

## Drill competition set

If precision military drill touches your fancy, you will have an opportunity to see some of the best in the country all day Nov. 22 without charge.

ROTC drill teams from 12 universities will take part in the Eighth Annual Cornell University Invitational Drill Competition in Barton Hall on the Cornell campus starting at 8 a.m. and running through 4 p.m.

A highlight of the day will be the trick drill routines from 1 to 4 p.m.



The Cornell Chronicle will not be published next Thursday due to the Thanksgiving holiday.

## Parking rules

Overnight parking on campus is prohibited on the university's main roads and commuter parking lots from Dec. 1 to April 1.

Overnight parking on campus is restricted during the winter months to facilitate snow removal. Any vehicles found in these areas between 2 a.m. and 5 a.m. will be ticketed and in some cases may be towed away.

Persons who must park in these areas overnight should request special permission in advance from the Department of Public Safety. Telephone, 255-1111.

The restriction does not apply to airport parking at Research Park.

During winter intersession, certain areas in dormitory lots and some commuter slots will be designated for overnight parking. Winter intersession overnight parking will be posted and permitted in the following lots: eastern most bay of A-lot (closest to Pleasant Grove Road); western most bay of B-lot (closest to Tower Road); and the southern bay of K-lot (east of Lynah Rink).

The following dormitory lot areas will be signed and available for winter intersession overnight parking: the first bay in the east end of the North Campus Conference Center lot; an area in the Stewart Avenue-Williams Street lot; and an area in the West Campus dormitory lots.