



New directors named

Deer
crossing
alert

Radioactive waste disposal

Volume 21 Number 13 November 30, 1989

ATTACK!

Genetically altered fungus could lead to biopesticides

A fungus has been altered genetically to attack something other than its usual target for the first time, Cornell scientists report.

The researchers equipped a corn fungus with a gene found in a pea fungus that enables the pea fungus to overcome the chemical defenses of pea plants. The result is a corn fungus that can attack pea plants.

These fungal transformation studies have implications for wide practical uses in agriculture, plant pathologist Olen C. Yoder said. He is a professor in the College of Agriculture and Life Sciences.

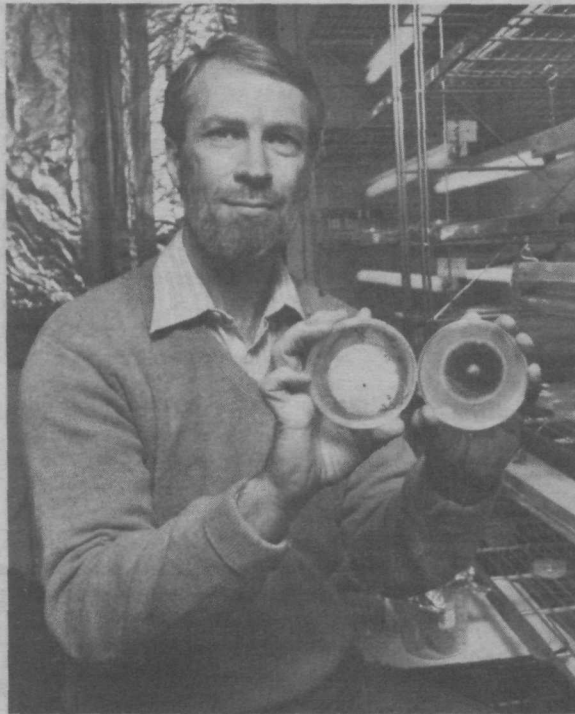
Yoder said that the technique used to transform the corn fungus into a pathogen of pea plants should make it possible to program many different fungal species genetically to attack a wide range of crop-damaging pests such as insects, weeds, soil-dwelling nematodes and even "bad" fungi.

"Using this genetically transformed corn fungus as a model system, we can begin to design a new family of environmentally safe and fast-acting biopesticides," he said.

"Also, we have gained a fundamental understanding of how plants defend themselves against fungal invasions and how the fungal pathogen of the pea can overcome the plant defense," Yoder said. "That's significant in understanding how fungal diseases develop in plants."

Yoder and his colleagues announced the successful transformation of a corn fungus into a pathogen of pea plants in a research paper published in *Science* magazine. Yoder's co-authors of the paper are Willi Schafer, a staff scientist at the Institute for Genetics and Biology in Berlin, West Germany; David Straney of the University of Maryland; Linda Cuiffetti at Oregon State University; and Hans Van Etten, a former professor of plant pathology at Cornell who now is at the University of Arizona. Schafer, Straney and Cuiffetti worked at Cornell with Yoder and Van Etten as postdoctoral fellows.

The Cornell researchers already are working to create



Don Albern

Olen Yoder holds a natural corn fungus (right) and a mutant strain of the fungus after it has been genetically altered to attack pea plants (left).

new fungal strains that could blast their way into weeds by demolishing two major physical barriers to invasion: cuticle — a waxy material covering the surface of plants — and tough cell walls in weeds.

Fungi could be transformed into biopesticides by splicing new gene coding for special enzymes into the fungi, which then could quickly penetrate the cuticle and cell walls, Yoder said.

Yoder predicted that commercially viable fungal biopesticides could be developed within a decade to replace synthetic pesticides.

In earlier work, Van Etten showed that when a fungus attacks pea plants, it quickly runs into the pea's chemical defense. Sensing a fungal intrusion, the pea

Continued on page 6

CU offers first birding course for the blind

In the first birding course for visually handicapped people, it's not the avian plumage but the recorded "che-wink" of the rufous-sided towhee, the wavering whistle of the Eastern meadowlark and the "con-ka-ree" of the red-winged blackbird that are offered as unmistakable clues to the birds' identity.

A two-cassette, 130-minute "Birdsong Tutor" from the Cornell Laboratory of Ornithology teaches the distinctive calls of 70 different birds, insects and amphibians and the habitats in which they're found.

The course was produced by Cornell ornithologists in cooperation with the National Library Service for the Blind and Physically Handicapped of the U.S. Library of Congress and with the Canadian National Institute for the Blind. Copies of the course have been added to the collections of National Library Service and the Canadian National Institute for free loan to their patrons. The course also is for sale by the Cornell Laboratory of Ornithology.

Although developed for the visually handicapped, the course should prove useful to sighted persons who want to learn more about birds in their natural environment, said Charles Walcott, director of the Laboratory of Ornithology.

"Some of the most interesting birds are masters of camouflage but their calls give them away," Walcott said. "If you restrict your birding to what you can see, you'll miss a lot of the action."

Birds' trademark songs are why sound is considered to be conclusive identification in competitive birding marathons and in bird counts conducted by professional ornithologists, said Lang Elliott, author of "The Birdsong Tutor" and owner of the Ithaca-based NatureSound Studio, where the tape was mixed.

"Birds are very noisy creatures, especially during the spring and early summer breeding seasons," Elliott said. "Each kind typically produces one or more distinctive sounds that can be used to identify the species, even when it is not seen. It's not unusual for 80 percent of the species counted in bird surveys to be identified by sound alone."

Continued on page 2

Student-organized race raises \$500 for community center



Charles Harrington

Gun Fun Run organizers Meg Talty, Cheryl Grant and Nancy Neuman (second, third and fourth from left) stand with Southside Community Center Director Audrey Cooper (second from left), Gun Hill Residences owner Mark Finkelstein (right) and some of the runners who helped raise \$500 for the community center.

When Meg Talty and two classmates took a senior-level agricultural economics course this semester, they were able to walk further into real life than just reading books and listening to lectures could take them.

As part of the course in small-business counseling, they conceived, organized and publicized the "Gun Fun Run," a two-mile charity event held on Nov. 18, to benefit Ithaca's homeless shelter located at the Southside Community Center. The event also promoted the site where it started, Gun Hill Residences, 210 Lake St., a private, student-oriented housing center that opened in August.

Sixty-two runners participated in the Gun Fun Run, which raised \$500 to benefit the homeless shelter, Talty said.

"We've been sitting in classes being lectured to by professors for three years now," Talty added. "This has been the first time we've been able to apply those skills. That's an incredible learning experience, right there." Talty completed the project with Nancy Neuman and Cheryl Grant, also business management majors.

They are among more than 70 students who worked in the community this semester as part of the counseling course, which is being offered by the College of Agriculture and Life Sciences. Other student projects included a shopping complex feasibility study for housing developers, a marketing plan for a portable storage systems business and a diversification study for a quarry that soon may add furniture to its product line.

The students "have become independent professionals," said Debbie Perosio, the Cornell lecturer who teaches the courses and who also is executive director of Agora Inc., a not-for-profit organization funded by the Gannett Founda-

Continued on page 8

BRIEFS

■ **Holiday decorations policy:** According to university policy, Cornell cannot sponsor or provide direct support for the display of religious symbols. Decorated trees are not considered religious symbols unless the decorations include religious symbols such as stars. However, individuals are not prohibited from having private displays in their own offices or living quarters. Questions concerning application of the policy should be addressed to William D. Gurowitz, vice president for campus affairs, 313 Day Hall, telephone 255-4166.

■ **A.D. White nominations:** Nominations to fill three Andrew D. White Professor-at-Large positions are due by March 13, 1990, addressed to Room 60-E, Martha Van Rensselaer Hall. Nominations may be made by individuals or groups. For more details, call the program's director, Professor Emeritus Urie Bronfenbrenner, or its secretary, Gerri Jones, at 255-0832. The program was established in 1965 to bring to campus individuals who have achieved international distinction in the humanities, the natural or social sciences, or the learned professions. Professors-at-large serve six-year terms, making periodic visits to campus as part of the program's goal to enrich the intellectual and cultural life at Cornell.

■ **Democracy in Athens:** In a lecture today, Danish scholar Mogens Herman Hansen will discuss whether Athens was a democracy and the ideas of popular rule, liberty and equality in ancient and modern political thought. The talk will be in Hollis E. Cornell Auditorium of Goldwin Smith Hall

starting at 4:30 p.m. His talk is sponsored by University Lectures.

■ **Cornell sports on TV:** There will be six Cornell hockey and basketball games televised regionally and in the New England, New York City and Washington, D.C., areas during the current season, via the Cornell Sports Network. The series will start with the Big Red's 2 p.m. Sunday, Dec. 3, hockey game against Harvard, the defending national champion. The games will be seen in the Ithaca area over station WSYT in Syracuse, cable Channel 26 in Ithaca.

■ **Bloodmobile:** The Red Cross Bloodmobile will be at Helen Newman Hall today from 10 a.m. to 3:45 p.m. and at Morrison Hall, Room 101, on Monday, Dec. 4, from 10:30 a.m. to 4:30 p.m. Call 273-1900 for an appointment or walk in at anytime.

■ **Health-plan options:** The period during which endowed-unit employees may change their choice of health-plan options has been extended from Nov. 30 to Dec. 15, the Office of Human Resources has announced. The reason is that there were delays in mailing materials that are intended to help employees reach their decisions. The extended deadline also applies to all employees — endowed and statutory — for making changes in their life insurance and in their membership in Select Benefits.

■ **State health-plan options:** State employees wishing to change health insurance options have through Wednesday, Dec. 20, to submit Enrollment Form PS-404 to the

Statutory Finance and Business Office in B-22 Mann Library. However, the Health Maintenance Organization option is not available to employees living in the Ithaca area. There are no rate increases in the employee contributions for Empire Health Plan in 1990. The deadline for making changes and/or enrolling for Select Benefits and Life Insurance has been extended to Friday, Dec. 15. Forms and cards must be returned to the Statutory Benefits Office in B22 Mann Library. For information call (607) 255-4455.

■ **Safety shoes:** The Lehigh Safety Shoemobile will be on campus Friday, Dec. 8, at the South Parking Lot of Riley-Robb Hall from 9 a.m. to 12:30 p.m. and from 1:30 to 3:30 p.m. To receive department reimbursement for safety shoes, an L-order using Lehigh Safety Shoe Co. as the vendor with an authorized signature, should be presented. For more information, call Life Safety Services at 255-2500.

■ **Civil rights:** Recent Supreme Court decisions that some jurists say have set back civil rights in the United States and their comparison to rulings made soon after the Civil War will be topic of a lecture here today by a federal judge who spent 20 years of her career arguing leading civil rights cases. U.S. District Judge Constance Baker Motley of the Southern District of New York will deliver the 1989 Robert S. Stevens lecture at 4 p.m. in the MacDonald Moot Court Room of Myron Taylor Hall at the Law School. The title of her lecture is "The Supreme Court — Civil Rights Litigation — and Deja Vu."

NOTABLES

Theory Center Director **Malvin H. Kalos** has won the Eugene Feenberg Memorial Medal in Many-Body Physics for his "pioneering, highly original and profound corpus of work on stochastic methods in quantum many-body theories . . . and for his early recognition of the importance of computational physics and high performance computing to meet its needs." The medal was given at the Sixth International Conference on Recent Progress in Many-Body Physics in Israel. Kalos, a fellow of the American Nuclear Society, came to Cornell from New York University, where he was director of the Ultracomputer Research Laboratory at the Courant Institute of Mathematical Sciences.

APPOINTMENTS

The administrative appointments of the following professors were approved by President Frank H.T. Rhodes in October.

Randolph Barker, director of the Southeast Asia Program, through June 30, 1992; **David M. Bates**, acting chairman of the L.H. Bailey Hortorium, through Dec. 31; **Carl F. Gortzig**, reappointed acting director of the Cornell Plantations, through Dec. 31; **Donald Greenberg**, reappointed director of the Program of Computer Graphics, through June 30, 1990; and **Sally McConnell-Ginet**, reappointed chairwoman of the Department of Modern Languages and Linguistics, through June 30, 1990.

Birding *continued from page 1*

Field recordings of birds and other animals in the taped course come from Elliott's collection, from the Cornell Library of Natural Sounds and from the Borror Laboratory of Bioacoustics at Ohio State University.

The course simulates various environments for beginning birders. For example:

- In a typical city environment, they hear such urban dwellers as the house sparrow, starling and rock dove, more commonly known as the pigeon.

- In a suburban backyard they encounter such diverse birds as a downy woodpecker, an American crow and an Eastern screech-owl.

- Singing in a farmland setting in the morning are barn swallows, indigo buntings and seven others. The same area in the evening is host to the great horned owl, whip-poorwill and five kinds of frogs and toads.

Dozens more birds are heard in visits to a stream, swamp, marsh, lake and deep forest and brief excursions to the north woods and the ocean coastline.

To place birds' songs in their natural habitat, the tutor also includes the recorded sounds of other creatures such as the bird-like trill of gray tree frogs, the grating chatter of katydids and the tail-splash alarm of the beaver.

The tapes' narrator explains how and why animals produce natural sounds, and

offers some memory tricks for their names. The timing of a field sparrow's notes, for example, suggests a ping-pong ball as it drops to the floor — bouncing faster and faster until it stops altogether.

Besides introducing high-quality sound recordings, each bird is given a visual description. The wood thrush, for example, is described as an eight-inch-long inhabitant of forests and wood lots with a reddish brown coloring above and a white breast covered with many triangular black spots.

One section of the course compares sounds to help identify birds with confusingly similar songs, such as the rose-breasted grosbeak, the American robin and the scarlet tanager. And because birds don't always sing solo, the program assists learners in distinguishing each performer in a woodland chorus of red-eyed vireo, ovenbird, wood thrush, scarlet tanager, pileated woodpecker and American crow.

Tape recordings alone won't teach everything about birds, narrator Elliott advises.

"You'd be surprised how quickly you will learn sounds, especially if you hear them in natural settings outdoors," he says on one tape.

"Visit as many different habitats as possible and supplement your field trips by listening to commercial recordings of species found in your region."

—Roger Segelken

GRADUATE BULLETIN

January Degrees: Friday, Jan. 12, is the deadline for completing all requirements for a January degree, including the submission of the final copies of theses and dissertations to the Graduate School. All students who plan to submit a thesis or dissertation should see the thesis adviser in the Graduate School to ensure that Graduate School rules are being followed.

Registration: Spring 1990 registration for graduate students will be held in The Henry, Sage Hall, on Thursday, Friday and Monday, Jan. 18, 19 and 22, 8:15 a.m. to 4:15 p.m.

Council Meeting: The Graduate Student Council will meet at 5:15 p.m. on Monday, Dec. 4, in The Henry, Sage Hall.

Fellowships: 1990-91 applications for foreign language and area studies fellowships are available in the graduate field offices and the fellowship and financial aid office, Sage Graduate Center. Application deadline is Friday, Jan. 19. Award includes a nine-month stipend of \$5,000 plus full tuition for 1990-91 academic year; available to citizens or permanent residents of the United States.

BARTON BLOTTER

A hearing will be held in Ithaca City Court at a date to be announced on harassment charges against Richard R. Robin, 59, of 206 Oak Hill Road, stemming from an alleged shoving incident during a speech by Nicaraguan Contra spokesman Alejandro Salazar in Willard Straight Hall on Nov. 15.

Palmer pleaded not guilty to the charges in Ithaca City Court on Nov. 22. Cornell senior Barbara J. Rosenthal filed the complaint against Palmer, according to Public Safety.

According to the morning reports of the Department of Public Safety for Nov. 14 through 26, four persons were referred to the judicial administrator, two on charges of stealing bricks from the Theory Center building site, one for serving alcohol to a minor and one for failing to comply to the order of a safety officer.

Computerized copies of the most current daily report may be called up on CUINFO under the title SAFETY. CUINFO terminals are located in the main lobbies of Day Hall, Gannett Clinic, Willard Straight Hall main desk, Sage Hall (Graduate Student Lounge) and eight libraries.

OBITUARY

Eric A. Blackall

Eric A. Blackall, a leading authority on Goethe and German romantic literature, died Nov. 16 at Tompkins Community Hospital. He was 75.

The British-born scholar joined the Cornell faculty in 1958, having taught the previous 19 years at the University of Cambridge. He served as chairman of the Department of German Literature from 1958 to 1965 and as director of the Society for the Humanities from 1977 to 1984.

Blackall retired in 1985 as the Jacob Gould Schurman Professor of German Literature. He held Cornell's Avalon Professorship in the Humanities from 1964 until 1967, when he was awarded the Schurman professorship.

He was the author of several widely acclaimed books, including "The Novels of the German Romantics," published in 1983 by Cornell University Press. It is the first book-length study in English on the subject.

His other major works include "The Emergence of German as a Literary Language 1700-1775," "Goethe and the Novel" and "Adalbert Stifter, A Critical Study."

In 1985, the Federal Republic of Germany awarded its Order of Merit, First Class, to Blackall, citing his contributions to the study of the German language and literature and praising him as one of the most articulate proponents of German culture.

In 1973, the Austrian government awarded Blackall the Cross of Honor for Arts and Science, First Class, for scholarship and heroism. While a graduate student in Nazi-controlled Vienna in 1938, Blackall rescued the papers and manuscripts of the Viennese author Arthur Schnitzler, a Jew.

Blackall earned a bachelor's degree in 1936 and a master's degree in 1940 at Cambridge and a Ph.D. at the University of Vienna in 1938. He became a U.S. citizen in 1965 and was a Fellow of the American Academy of Arts and Sciences and the American Philosophical Society.

Survivors include his wife, Jean Frantz Blackall, a professor of English at Cornell, and their son, Roger N. Blackall.

A memorial service will be held at the beginning of the spring semester, on a date to be announced.

—Martin B. Stiles

CORNELL
CHRONICLE

EDITOR: Mark Eyerly
GRAPHICS: Cindy Thiel
CIRCULATION: Joanne Hanavan

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It is the policy of Cornell University to support actively equality of educational and employment opportunity. No person shall be denied admission to any educational program or activity or be denied employment on the basis of any legally prohibited discrimination involving, but not limited to, such factors as race, color, creed, religion, national or ethnic origin, sex, age, or handicap. The university is committed to the maintenance of affirmative action programs that will assure the continuation of such equality of opportunity. Sexual harassment is an act of discrimination and, as such, will not be tolerated. Inquiries concerning the application of Title IX may be referred to Cornell's Title IX Coordinator (Coordinator of Women's Services) at the Office of Equal Opportunity at 234 Day Hall, Cornell University, Ithaca, N.Y. 14853-2801 - telephone (607) 255-3976.

Cornell University is committed to assisting those handicapped students who have special needs. A brochure describing services for the handicapped student may be obtained by writing to the Office of Equal Opportunity, 234 Day Hall, Cornell University, Ithaca, N.Y. 14853-2801. Other questions or requests for special assistance may be directed to that Office.

President Emeritus Deane W. Malott is honored

Professorship established in JGSM; stand against McCarthyism is recounted

Some 70 friends of President Emeritus Deane W. Malott, 91, and his wife, Eleanor, attended a luncheon earlier this month to mark the establishment of an endowed professorship in his honor in the Johnson Graduate School of Management.

The gathering led to the discovery in the Cornell Archives of a letter reinforcing the often-made assessment that the greatest hours of Malott's presidency, which ran from 1951 to 1963, came as a result of his firm stance against McCarthyism.

In discussing the luncheon with a Cornell News Service staff writer a few days later, former President Dale R. Corson (1969-77) commented that his predecessor "deserves great credit for his excellent handling" of the pressures placed on him in an era when other universities fell into virtual chaos. "There was no witch hunt at Cornell," Corson said.

Coincidentally, University Archivist Gould Colman recently had mentioned to the staff writer that "somewhere in those boxes of Malott papers there is a beautiful letter from Philip Morrison," the Cornell physicist who was a prime target of the McCarthy witch hunt.

Morrison, now an emeritus professor at Massachusetts Institute of Technology, was an associate professor at Cornell in 1953 when he testified before the U.S. Senate Internal Security Subcommittee that he had been a member of the Communist Party until 1939. Morrison worked on the Manhattan Project during World War II, joined the Cornell faculty in 1946 and went to MIT in 1965.

Corson's remarks triggered a search of the archives that unearthed a letter dated Columbus Day 1980 in which Morrison wrote to Malott:

"I have never made clear to you how much I admire and how often I comment on your fairness and integrity in the bad years of the McCarthy era. I am pretty sure that you and I would often differ on

issues of the day, but your adherence to the fundamentals of human rights and honesty in dispute went past all that. It was an example of the right conduct for men of responsibility, in a time when too many of them sought the quick expedient. I hope you look back on those days with the pride you deserve to take in them."

When the letter was read over the phone to Morrison on Tuesday, the renowned physicist said: "I reaffirm every word of it today."

In 1956, Corson, who at the time was a colleague of Morrison in the Physics Department, accompanied Morrison as an adviser during two days of hearings conducted by Cornell's Board of Trustees

'I have never made clear to you how much I admire . . . your fairness and integrity in the bad years of the McCarthy era.'

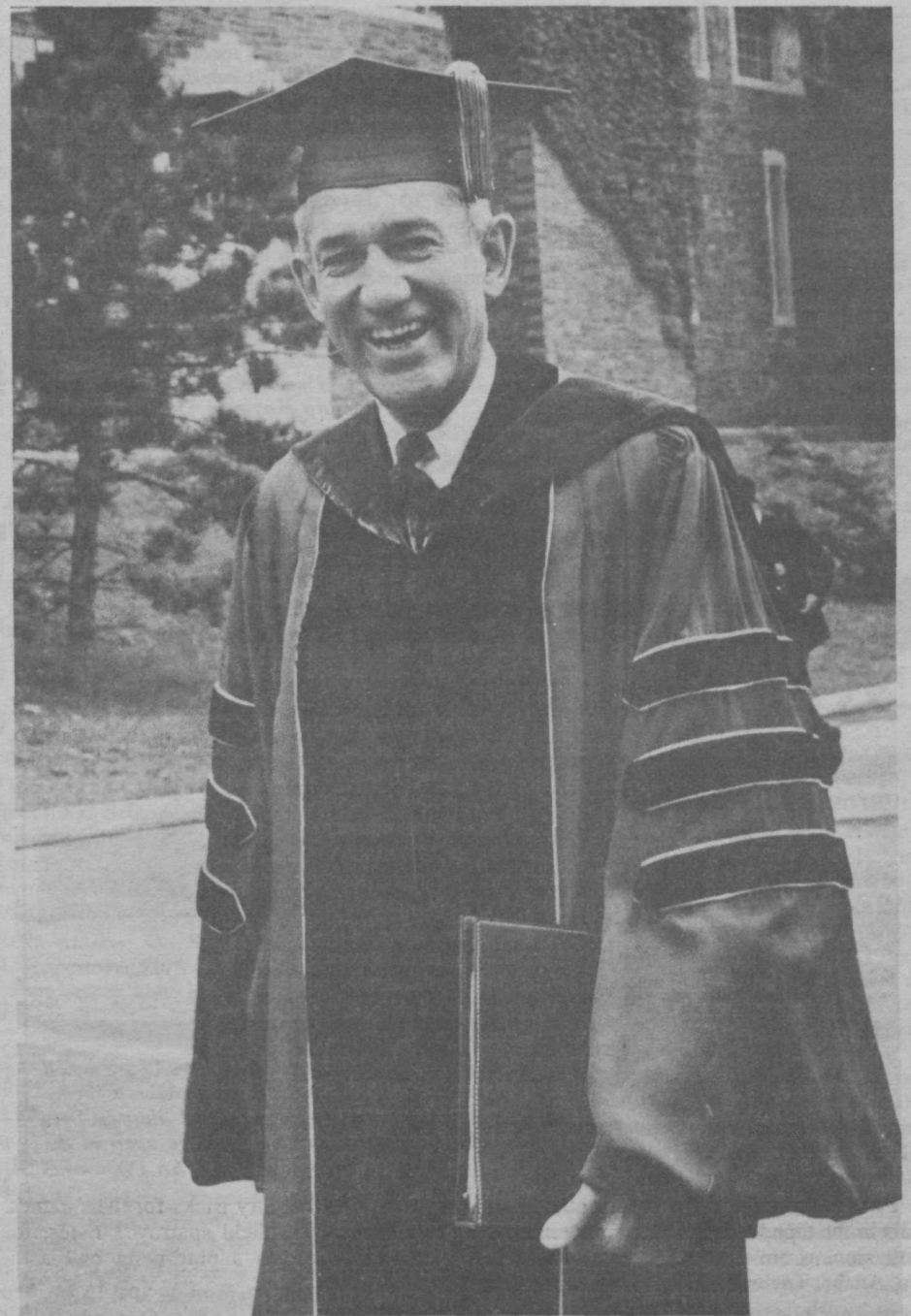
— Philip Morrison

into Morrison's "activities." Malott had recommended Morrison's promotion to full professor, and even though the trustees approved the promotion, they called the hearing anyway.

In looking back to those days, Corson said he much admired Malott for refusing even to look at the trustees' report about Morrison's "activities" after it was submitted to him. The promotion had been made and the matter was closed as far as he was concerned, Corson explained.

Upon Malott's retirement as president, Thomas W. Mackesey, then dean of faculty, said that the retiring president "took office when colleges and universities were finding it necessary to defend themselves against wild charges born of a kind of hysteria. . . . He stood true and firm. This may well be the most enduring monument of his presidency."

— Martin B. Stiles



G. Stanley Brown

President Deane W. Malott at a commencement in the 1960s.

CISER, Theory Center research unit name new directors

Mount to lead CISER

Timothy D. Mount, a professor of agricultural economics, has been named director of the Cornell Institute for Social and Economic Research (CISER). Mount will assume his new duties on July 1.

CISER was founded in 1981 to promote collaboration among the now more than 350 social scientists in six of the university's schools and colleges and provide them with research assistance. It is home to the first mainframe computer in the United States funded by the National Science Foundation for use by sociologists, linguists, historians, economists and other social scientists.

"Addressing the problems facing us in the 1990s, like global climate change and shifts in the demographics of the work force, requires that social scientists begin working together," said Mount, previously the associate director at CISER. "One activity of the institute is to provide the technical support for them to do so.

"What we're aiming toward is a more integrated com-

puter system whereby our social scientists can compute locally, or on a mainframe or on the Cornell supercomputer." Cornell is home to one of the five national supercomputer centers.

"The development of new communication networks will make it possible to build a community among social scientists through electronic bulletin boards and electronic mail," Mount explained.

"Such an ease of transmission will enable our faculty to gain more timely access not only to new developments in their field but also to national data housed in universities and government agencies anywhere in the country."

CISER also assists faculty by maintaining a social science data archive that is one of the largest in the nation and by running a survey research facility to design questionnaires, conduct mail and telephone surveys, and prepare the collected data for analysis. CISER staff also help faculty prepare research proposals.

"Most social science institutes focus on a particular area of study," Mount said. "CISER is unique in that it's an all-purpose institute established to make sure that the research

needs of the university's social scientists are met and that, as a community, we keep up with the new developments in computing and data analysis."

Mount specializes in econometric modeling, particularly in the areas of energy and environmental economics. His recent work has involved studying the consumer cost of reducing atmospheric emissions from power plants in New York state that are associated with acid rain and global warming. He succeeds CISER's first director, sociology Professor Robert McGinnis, who will return to teaching and research.

—Metta Winter

Coleman to lead ACRI

Thomas Coleman, professor of computer science, has been appointed director of the Theory Center's Advanced Computing Facility, which also has been given a new name — the Advanced Computing Research Institute. The new name better reflects the group's focus on research in parallel processing, said Theory Center Director Malvin Kalos.

Coleman's appointment recognizes the increasing importance of parallel processing in computational science and in Theory Center research, said Kalos. The appointment also reflects a more formal relationship between the Computer Science Department and the Theory Center. Such relationship will aid funding requests and encourage collaborations between the two units, he said.

Parallel processing is the technique of dividing a computing problem among a number of computer processors, which solve the segments simultaneously.

Coleman's research area is design of algorithms for numerical optimization with concentration on parallel computation. His research includes studies using the ACRI's Intel 32-processor iPSC/2 hypercube. He holds a Ph.D. in mathematics from the University of Waterloo and joined the Cornell faculty in 1981 after working for two years as a researcher in the Applied Mathematics Division of Argonne National Laboratory.

Besides the Intel machine, the ACRI has a 16-processor IBM Victor machine, a 16-processor Transtech transputer system and an 8-processor Topologix transputer system. The Computer Science Department also has a 48-processor Butterfly GP1000 parallel machine. Besides these parallel machines, the Theory Center's Cornell National Supercomputing Facility operates two IBM 3090-600E supercomputers, with six processors each.

—Dennis Meredith



Timothy D. Mount



Thomas Coleman

Patricia Reynolds

CALENDAR

All items for the calendar should be submitted (typewritten, double spaced) by campus mail, U.S. mail or in person to Joanne Hanavan, Chronicle Calendar, Cornell News Service, Village Green, 840 Hanshaw Road, Ithaca, NY 14850.

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

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

DANCE

Cornell International Folkdancers

All events are open to the Cornell Community and general public. Admission is free, unless stated otherwise. For further information, call 257-3156.

Advanced Balkan Folk Dance Workshop, the seventh session, taught by Ed Abelson, will be held Dec. 3, 6 to 7:30 p.m., North Room, Willard Straight Hall.

Ballroom and International Couple Dance, Dec. 3, 7:30 to 8:30 p.m., teaching of easy ballroom rhythms; 8:30 to 11:30 p.m., grand party, Memorial Room, Willard Straight Hall. For information call 257-3156 or 255-3793.

Israeli Folkdancing

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

EXHIBITS

Johnson Art Museum

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

"Form and Function in African Art," an exhibition on view through Dec. 23, contains masks, staffs and textiles that were created to be part of everyday life and were used in ritual ceremonies, dances and other activities.

Department of Art Faculty Exhibition, featuring the work of current and emeritus members of Cornell's art department, to Dec. 22.

"Council of the Creative and Performing Arts Individual Awards 1986-1989," will be on view through Dec. 22. The exhibition, featuring approximately 50 projects completed by the award winners of the past three years, brings together work from a wide range of departments and colleges within the university.

"Framed," an experimental video installation produced by Bruce and Norman Yonemoto, is the centerpiece of a six-week Asian American Film and Video Festival appearing at the Johnson Museum through Dec. 22. "Framed" explores racial prejudice and assimilation in American society, utilizing government propaganda films on the Japanese internment camps in its multimedia setting.

Two 12-foot sections of the NAMES Project AIDS Memorial Quilt will be displayed through Dec. 3 as part of a nationwide recognition of the second annual World AIDS Day on Dec. 1. Each section of the quilt is composed of eight 6-by-3-foot individual panels. Each panel is a memorial to one person who has died from AIDS, including personal mementos and messages from family and friends.

"Eye Openers: New Years Times Three," a two-day workshop for children ages 7 to 10 exploring New Year's celebrations practiced in

China, Japan and Korea, Dec. 9 and 16. Workshops for ages 7 and 8 will meet from 10 a.m. to noon; ages 9 and 10 will meet from 1 to 3 p.m. Fee is \$10 for museum members and \$11 for nonmembers. Preregistration is required by Dec. 1. For more information call 255-6464.

Center for Jewish Living

"Portrait of A Land in Turmoil," an exhibit by Avner Moriah, through Dec. 20, Sundays through Thursdays, 1 to 5 p.m., in the Gallery of Art, Center for Jewish Living, 106 West Ave.

Hartell Gallery

Architecture Graduate Student Work, through Dec. 2; Architecture Reviews Dec. 3 through Dec. 14. The gallery is in Sibley Dome and is open Monday through Friday, 8 a.m. to 5 p.m.

Olin Library

"Subjects into Citizens: Image and Discourse in the French Revolution," a colorful and varied exhibition from Cornell's French Revolution Collection will be on display in Olin Library Monday through Friday, 8 a.m. to 5 p.m., through Jan. 3.

Tjaden Gallery

Group Exhibition: Students of Elizabeth Meyer, to Dec. 9. The gallery is in Tjaden Hall.

FILMS

Films listed below are sponsored by Cornell Cinema unless otherwise noted. Most Cinema films cost \$3, except for weekend films in Uris and Statler, which are \$4, and are open to the public unless otherwise stated. An (*) means admission is charged.

Thursday, 11/30

"Pierrot Le Fou" (1961), directed by Jean-Luc Godard, with Jean-Paul Belmondo and Anna Karina, 7:30 p.m., Uris.
 "Dead Poets Society" (1989), directed by Peter Weir, with Robin Williams and Robert Sean Leonard, 10 p.m., Uris.*

Friday, 12/1

"Miracle Mile" (1989), directed by Steve DeJarnatt, with Anthony Edwards and Mare Winningham, 7:30 p.m., Uris.*
 "L'Avventura" (1960), directed by Michelangelo Antonioni, with Monica Vitt and Lea Massari, 8 p.m., Anabel Taylor.*
 "Dead Poets Society," 9:45 p.m., Uris.*

Saturday, 12/2

"The Journey to Chitrakott," and "The Curse on King Dashrath," parts 19 and 20 of the video saga "Ramayan," an Indian epic, co-sponsored by the South Asia Program and Cornell University Libraries, 1:30 p.m., 310 Uris Library.
 "The Brave Little Toaster" (1987), directed by Jerry Rees, animated feature, part of the IthaKid Film Fest, 2 p.m., Uris.* (\$2, \$1.50 for children under 12)
 "La Marseillaise" (1938), directed by Jean Renoir, with Louis Jouvet, Andrex, and Pierre Renoir, 7 p.m., Uris.*
 "The Rainbow" (1989), directed by Ken Russell, with Sammi Davis, Paul McGann and Amanda Donohoe, 7:30 p.m., Anabel Taylor.*
 "Dead Poets Society," 10 p.m., Uris.*

Sunday, 12/3

"Uncle Buck" (1989), directed by John Hughes, with John Candy and Amy Madigan, 4:30 p.m., Uris.*
 "Forbidden City" (1989), directed by Arthur Dong, co-sponsored by Asian American Program, 8 p.m., Uris.

Monday, 12/4

"Richard III" (1955), directed by Laurence Olivier, with Laurence Olivier, John Gielgud and Ralph Richardson, 6:30 p.m., Uris.*
 "Uncle Buck," 9:40 p.m., Uris.*

Tuesday, 12/5

"Sad Song of Yellow Skin," Southeast Asia Program, 4:30 p.m., 310 Uris Library.
 "Rebecca" (1940), directed by Alfred Hitchcock, with Lawrence Olivier and Joan Fontaine, 6:50 p.m., Uris.*
 "Uncle Buck," 9:40 p.m., Uris.*

Wednesday, 12/6

"The Terrorizer" (1986), directed by Edward Yang, Mandarin with Chinese and English subtitles, Taiwan Film Festival, 4:30 p.m., Uris.

"The Entertainer" (1960), directed by Tony Richardson, with Laurence Olivier, Brenda De Banzie and Joan Plowright, 7:15 p.m., Uris.*
 "Uncle Buck," 9:30 p.m., Uris.*

Thursday, 12/7

"Marathon Man" (1976), directed by John Schlesinger, with Dustin Hoffman, Roy Scheider and Laurence Olivier, 7 p.m., Uris.*
 "Parenthood" (1989), directed by Ron Howard, with Steve Martin, Mary Steenbergen and Dianne Weist; shown with local film maker Karl Staven's animated short, "Making a Baby," 9:45 p.m., Uris.*
 "Stage Show: Pakistan Business and Professional Women's Club," South Asia Film Series, 7:30 p.m., 310 Uris Library.

LECTURES

Center for Jewish Living

"Ars Longa, Money Brevis in the Day of the Deficit," Leonard Garment, an adviser to Presidents Nixon and Ford, Dec. 7, 8 p.m., Kosher Dining Hall, 106 West Ave.

CUSLAR

"Nicaragua and Democracy: Prospects for the 1990 Elections," Thomas Walker, political science, Ohio University, Dec. 4, 7 p.m., Anabel Taylor Hall.

Classics

"An Evening with Lucian and Aristophanes," part of the Classics Playreading Series, Dec. 1, 8 p.m., Temple of Zeus, Goldwin Smith Hall.

East Asia Program

"The Meaning of No Da," Tetsuya Kunihiro, modern languages and linguistics, Fulbright Visiting Scholar, and linguistics, University of Tokyo, in Japanese with no translation, Dec. 6, 4:30 p.m., 153 Uris Hall.

Henry Speaker Series

"The Environment Movement at Cornell," a discussion of the university's roles as a research institution, educator, consumer and producer of waste and focusing on involvement of students, faculty and staff in achieving environmental reform, Dec. 5, 7:30 p.m., The Henry, Sage Hall.

Latin American Studies

"The Environmental Campaign of the Green Party in Brazil: Politics, Research and Perspectives for the Future," Maria Thereza Alves, NUCLEO VERDE, Nov. 30, 12:15 p.m., 115 Martha Van Rensselaer Hall.

Law

The Robert S. Stevens Lecture, the Honorable Constance Baker Motley, U.S. District Court, D.C., Nov. 30, 4 p.m., Moot Courtroom, Myron Taylor Hall.

Society for the Humanities

"Adieu 1989: Requiem for a Bicentennial," Steven Kaplan, history, and fellow, Society for the Humanities, Dec. 6, 4:30 p.m., Hollis E. Cornell Auditorium, Goldwin Smith Hall.

Theory Center

"Computational Fluid Dynamics Research Using Grumman's Supercomputer Facility," Frank Marconi, senior staff scientist, Grumman's Corporate Research Center, Dec. 5, 1:30 p.m., Morison Room, Corson/Mudd Hall.

University Lectures

"Was Athens a Democracy?" Mogens Herman Hansen, classics, University of Copenhagen, Nov. 30, 4:30 p.m., Hollis E. Cornell Auditorium, Goldwin Smith Hall.
 "The Demography of the Attic Demes," Mogens Herman Hansen, Dec. 1, 2:30 p.m., 134 Goldwin Smith Hall.

Western Societies Program

"Heidegger in the U.S.S.R.," Geoffrey Waite, German Studies, Nov. 30, 12:15 p.m., 177 Goldwin Smith Hall.

MUSIC

Department of Music

The Cornell Gamelan Ensemble, directed by Martin Hatch, will perform Javanese music on Dec. 1 at 7:30 p.m. in Barnes Hall. The

music, composed predominantly of hanging gongs, gong-chimes and drums, developed over the past 200 years in courts of central Java.

A piano recital with students of Jonathan Shames, Dec. 3, 2 p.m., Barnes Hall.

The Cornell Symphonic Band and Chamber Winds under the direction of Mark Scatterday will present a program of international compositions set for wind band, Dec. 3, 7:30 p.m., Bailey Hall. The concert is in honor of the international students and faculty of the university and members of the local community in commemoration of the 44th anniversary of the founding of the United Nations. The program includes Mendelssohn's "Overture for Winds," "Irish Tune from County Derry and Shepard's Hey" by Percy Aldridge Grainger, "Variations on a Korean Folksong" by John Barnes Chance and Donald Hunsberger's wind transcription of Dmitri Shostakovich's "Galop."

Midi Madness IV will perform Dec. 4, 8:15 p.m., Barnes Hall. New computer compositions by students using Musical Instrument Digital Interface.

An all Mendelssohn chamber music concert will be performed on Dec. 6 at 8:15 p.m. in Barnes Hall. The performers include Bart Van Oort, fortepiano; Edward Swenson, tenor; David Budil, viola; Elizabeth Field and Natasha Halmi, violin; and Andrew Walkling and Cristini Gummere, cello.

Student Chamber Music recital, under the direction of John Hsu, will perform on Dec. 7 at 8:15 p.m., in Barnes Hall. Works by Mozart, Dohnanyi and Shostakovich will be featured.

Bound for Glory

Christopher Shaw, singer/songwriter of the Adirondacks, will present three live sets in the Commons Coffeehouse, Anabel Taylor Hall, Dec. 3, 8:30, 9:30 and 11:30 p.m. Bound for Glory can be heard Sundays from 8 to 11 p.m. on WVBR-FM, 93.5.

Unions & Activities

The Alarm with special guest The Kevin McDermott Orchestra, Dec. 7, 8:30 p.m., Bailey Hall. Reserved tickets for students \$10.50/\$12.50 (2 tickets per C.U. ID) and reserved seats for general public \$12.50/\$14.50, available at the Willard Straight Hall Ticket Office, Rebop Records, Ithaca Compact Disc and all Ticketron/Telecharge outlets.

READINGS

Toni Morrison Lecture Series

Cyprian Ekwensi, Nigerian novelist, will read from and discuss his novels on Nov. 30, 4:30 p.m., A.D. White House.

RELIGION

Sage Chapel

Robert L. Johnson, director, CURW, will deliver the sermon at Sage Chapel on Dec. 3. Services will begin at 11 a.m. Music will be provided by the Sage Chapel Choir. Sage is a non-sectarian chapel that fosters dialogue and exploration with and among the major faith traditions.

Catholic

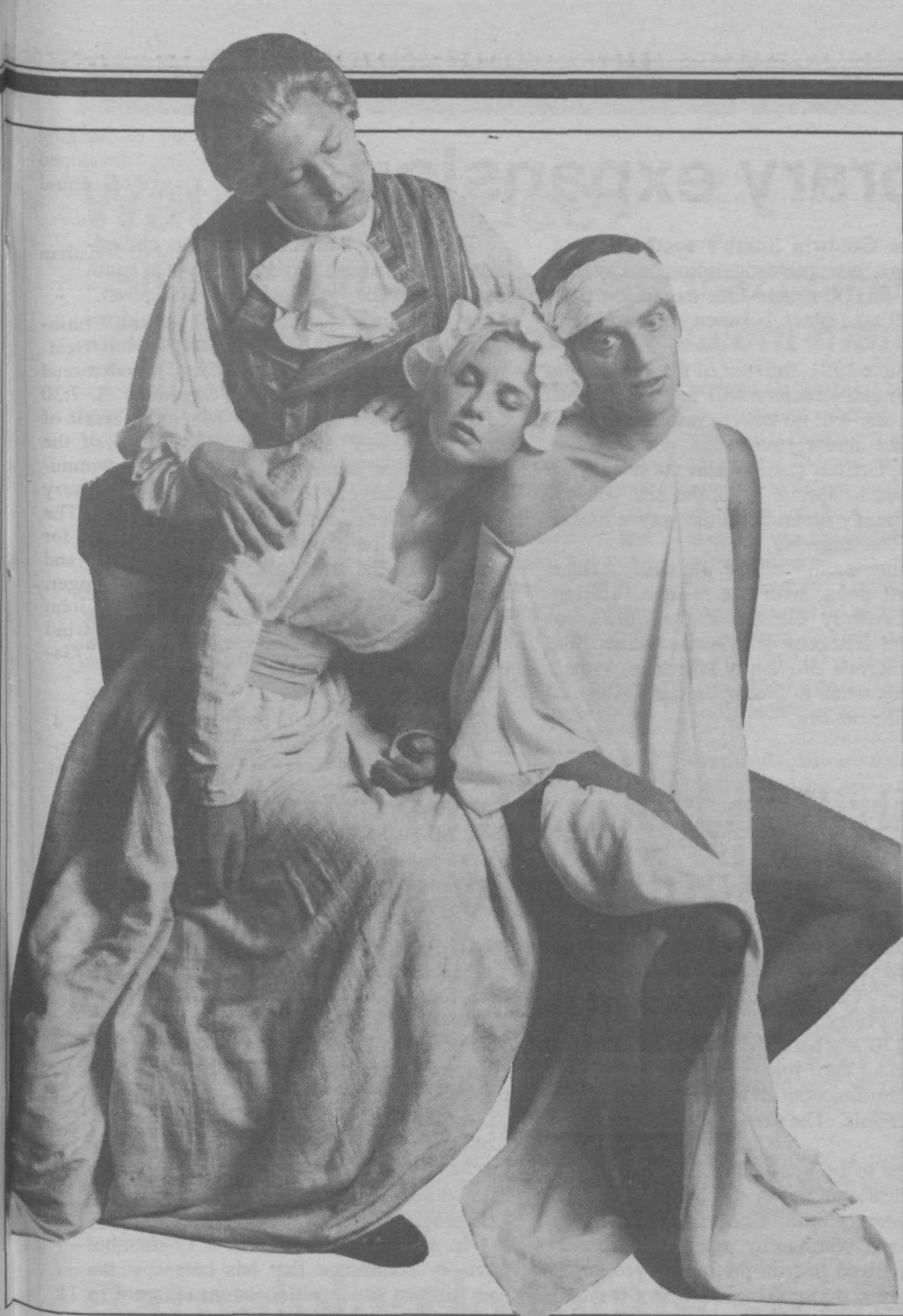
Mass: Saturdays, 5 p.m., Anabel Taylor Auditorium.
 Mass: Sundays, 9:30 a.m., 11 a.m., 5 p.m., Anabel Taylor Auditorium.
 Daily Masses, Monday through Friday, 12:20 p.m., Anabel Taylor Chapel.
 Advent Penance Service, Dec. 5, 7 p.m., Anabel Taylor Chapel.

Christian Science

Testimony Meeting: Thursdays, 7 p.m., Anabel Taylor Founders Room.

Episcopal (Anglican)

Sundays, Worship & Eucharist, 9:30 a.m., Rev. Gurdon Brewster, Chaplain, Anabel Taylor Chapel.



Patricia Reynolds

performers (from left) Randy Braunberger, Beverley Mac Keen and Tom Spivey appear in The Department of Theatre Arts production of "Marat/Sade" by German playwright Peter Weiss and directed by Bruce Levitt. Performances Dec. 6 through 11 in the Proscenium Theatre, Center for Theatre Arts.

Friends (Quakers)
Sundays, 10 a.m., adult discussion; 11 a.m. meeting for worship, Edwards Room, Anabel Taylor Hall. Call 272-8755 for information.

Jewish
Shabbat Services: Friday, Reform, 5:30 p.m., Chapel, Anabel Taylor Hall; Conservative, 5:30 p.m., Founders Room; Orthodox, Young Israel (call 272-5810 for times). Saturday, Orthodox, 9:15 a.m., Edwards Room; Conservative/Egalitarian, 9:45 a.m., Founders Room. Morning Minyan at Young Israel, 106 West Ave. Call 272-5810.

Korean Church
Sundays, 1 p.m., Anabel Taylor Chapel.

Muslim
Fridays, 1 p.m., Anabel Taylor Edwards Room.

Protestant
Protestant Cooperative Ministry: Bible study, Sundays, 10 a.m., G-7 Anabel Taylor; Sunday worship, 11 a.m., Anabel Taylor Chapel.

Zen Buddhism
Zen meditation: Thursdays at 5 p.m. in the chapel, Anabel Taylor Hall. For more information or to arrange beginner's instruction, telephone Jon Warland at 257-1404.

SEMINARS

Agricultural Economics
"Family Resources and Gender Differences in Human Capital Investment," Harold Alderman, research fellow, International Food Policy Research Institute (IFPRI), Washington, D.C., Nov. 30, 3:45 p.m., 401 Warren Hall.

Agronomy
"Long-Term Cropping Systems Research at the Rodale Research Center: An Update,"

Rhonda Janke, Rodale Research Center, Kutztown, Pa., Dec. 5, 4 p.m., 135 Emerson Hall.

Applied Mathematics
"Stability and Bifurcation for a Multiple Group Model for the Dynamics of HIV/AIDS," Wenzhang Huang, Claremont Graduate School and George Institute of Technology, Dec. 1, 2:30 p.m., 421 Sage Hall.
"Preconditioning with Low-Rank Updates," Homer Walker, Utah State University, Dec. 1, 4 p.m., 322 Sage Hall.

Astronomy
"A New Study of Star Bursts in the IRAS Bright Galaxy Sample," James J. Condon, National Radio Astronomy Observatory, Charlottesville, Va., Nov. 30, 4:30 p.m., 105 Space Sciences Building.

Atomic & Solid State Physics
Symposium on Energy Transport, Dec. 8, 1 to 5:30 p.m., 700 Clark Hall.

Biochemistry, Molecular & Cell Biology
"Molecular Genetic Analysis of the Fc Receptor for IgE," Henry Metzger, N.I.A.M.S., N.I.H., Dec. 1, 4 p.m., Conference Room, Biotechnology Building.
"Analysis of Transcriptional Regulation of HSP70 Gene in *Drosophila*," Hyun Sook Lee, biochemistry, molecular and cell biology, Dec. 4, 12:20 p.m., Conference Room, Biotechnology Building.

Biophysics
"Molecular Dynamics Simulations: Applications to Proteins," Martin Karplus, chemistry, Harvard University, Dec. 6, 4:30 p.m., 700 Clark Hall.

Chemical Engineering
"Molecular-Thermodynamic Approach to Predict: Micellization-Phase Behavior and Phase Separation of Micellar Solution," E. Daniel Blankschtein, chemical engineering, M.I.T., Dec. 5, 4:15 p.m., 165 Olin Hall.

Chemistry
General Chemistry Colloquium, "Dynamics of Sticky Collisions with a Surface: Splats and Hammers," Sylvia T. Ceyer, MIT, Nov. 30, 4:40 p.m., 119 Baker Laboratory.

CISER

"Apprenticeship for the Future: Improving the Transition from School to Work," Steve Hamilton, human development and family studies, Dec. 1, 12:20 p.m., 216 Ives Hall.

Communications

"Communication Network Analysis in Organizations: A Primer," Don Schwartz, communication, Dec. 1, 2:30 p.m., 640 Stewart Ave.

Cooperative Extension Forum

"Selling Safety to an Indifferent Audience," John G. Pollock, NYS RHSC and ABEN, Dec. 4, 9 a.m., 401 Warren Hall.

Design & Environmental Analysis

"The Importance of Asset Management to FM," Michael Bell, Lasalle Partners, New York City, Dec. 4, 4:30 p.m., 200 Savage Hall.

Ecology & Systematics

"Monitoring the Foraging Energetics, Depths and Dive Times of Free-Ranging Northern Elephant Seals," Anthony C. Huntley, lecturer, biology and environmental studies, University of California, Santa Cruz, Dec. 1, 9:05 a.m., G-1 Stimson Hall.
"Is Competition Really a Dead Issue in Herbivore Communities? Insights from Polymorphic Plant Hoppers," Robert F. Denno, entomology, University of Maryland, College Park, Dec. 6, 4:30 p.m., A106 Corson/Mudd Hall.

Electrical Engineering

"Trends in Image Processing, Computer Graphics and Scientific Visualization," Raymond Nash, TASC, Dec. 5, 4:30 p.m., 219 Phillips Hall.

Environmental Toxicology

"The Alaskan Oil Spill: It's Ecological Effects," Robert W. Howarth, Ecology Systematic Research Center, Dec. 1, 12:20 p.m., 304 Fernow Hall.
"A Critique of Risk Assessment as Applied to Solid Waste Incineration," Paul Connett, chemistry, St. Lawrence University, Dec. 7, 12:20 p.m., 304 Fernow Hall.

Epidemiology

"Effects of Social Structure in Disease Transmission," Carlos Castillo-Chavez, plant breeding and biometry, Dec. 1, 12:20 p.m., 260 Warren Hall.

Floriculture & Ornamental Horticulture

"The Influence of Light Exclusion on the Anatomy, Physiology and Propagation of *Carpinus betulus*," Brian Maynard, grad student, floriculture and ornamental horticulture, Nov. 30, 12:15 p.m., 404 Plant Science Building.
"Manganese Fertilization of Creeping Bentgrass Grown on Sand Golf Greens," Dave Davidson, grad, floriculture and ornamental horticulture, Dec. 7, 12:15 p.m., 404 Plant Science Building.

Food Science

"Calcium Bioavailability in Dairy Foods," Dennis Miller, food science, Dec. 5, 204 Stocking Hall.

Genetics & Development

"Cell Recognition and Cell Movement," Gerold Schubiger, zoology, University of Washington, Dec. 4, 12:20 p.m., 180 Biotechnology Building.
"What Happens in the Early *Drosophila* Embryo?" Gerold Schubiger, zoology, University of Washington, Dec. 4, 4 p.m., Conference Room, Biotechnology Building.

Hillel

"Shattered Vessels: Heresy, Heretics and Jewish Tradition," Dec. 6, 7:30 p.m., G-34 Anabel Taylor Hall.

International Nutrition

"Food Security, Nutrition and Government Policy in Pakistan," Harold Alderman, nutritional sciences, Nov. 30, 12:40 p.m., 200 Savage Hall.

Materials Science & Engineering

"Novel Mixed-Conducting Oxides," Wayne Worrell, University of Pennsylvania, Dec. 7, 4:30 p.m., 140 Bard Hall.

Mechanical & Aerospace Engineering

"Models for Predicting Turbulent Flames," Sanjay Correa, G.E. Corporate Research Center, Schenectady, N.Y., Dec. 5, 4:30 p.m., 107 Upson Hall.
Manufacturing Seminar, "I Don't Like Your Attitude," Charles A. Peek, Jr., Pratt and Whitney, Nov. 30, 4:30 p.m., B14 Hollister Hall.
Manufacturing Seminar, "Applications Specific Materials/Process Invention," Nathaniel Quick, AppliTech of Indiana, Dec. 7, 4:30 p.m., B14 Hollister Hall.

Microbiology, Immunology & Parasitology

"Regulation of the Human Papilloma Enhancer Promotor by Viral and Host Transcription Factors," Louise Chow, biochemistry, University of Rochester, School of Medicine, Dec. 4, 12:15 p.m., G-3 Vet Research Tower.

Modern Languages & Linguistics

Title to be announced, Irene Heim, University of California, Los Angeles, and M.I.T., Nov. 30, 4:30 p.m., 106 Morrill Hall.
Title to be announced, Irene Heim, Dec. 1, 12:20 p.m., 224 Morrill Hall.
Title to be announced, Ignazio Mirto/Crol Rosen, Dec. 5, 4:30 p.m., 111 Morrill Hall.

Natural Resources

"Population Viability Analysis, Planning and Management for Spotted Owls," Hal Salwasser, USDA Forest Service, Washington, D.C., Dec. 5, 12:20 p.m., Femow Hall.

Neurobiology & Behavior

"Biology of Muscular Dystrophy," Barry Cooper, veterinary pathology, Nov. 30, Morison Seminar Room, Corson/Mudd Hall.
"CO₂-Sensitive Receptors in Lepidoptera," Franz Bogner, neurobiology and behavior, Dec. 7, 12:30 p.m., Morison Seminar Room, Corson/Mudd Hall.

Nutrition

"Diet and Cancer of the Breast and Colon," Walt Willett, Harvard School of Public Health, Dec. 4, 4:30 p.m., 100 Savage Hall.

Ornithology

"Spotted Owls and National Forest Management Policies," Hal Salwasser, USDA-Forest Service, Dec. 4, 7:45 p.m., Laboratory of Ornithology, 159 Sapsucker Woods Road.

Peace Studies Program

Title to be announced, Franklin Griffiths, University of Toronto, Nov. 30, 12:15 p.m., G-08A Uris Hall.

Pew-Cornell Lecture Series

The Functional Consequences of Malnutrition and Implications for Government Policy," Doris Calloway, nutritional sciences, Dec. 5, 3:30 p.m., 165 Martha Van Rensselaer Hall.

Pharmacology

"Modulation of the NMDA Response by Glycine and Intracellular Mg²⁺," Jon Johnson, University of Pittsburgh, Dec. 4, 4:30 p.m., G-3 Vet Research Tower.

Plant Biology

"Plasmodesmatal Structure, Function and Viral Interactions," William Lucas, botany, University of California, Davis, Dec. 1, 11:15 a.m., 404 Plant Science Building.

Plant Pathology

"Modeling Tuber Infection by the Potato Late Blight Fungus," S. N. Bergeron, Dec. 5, 4:30 p.m., 404 Plant Science Building.
"Resistance to Sterol Biosynthesis Inhibiting Fungicides: Mechanism of Resistance, Baseline Sensitivity of Pathogen Populations, and Shifts Toward Decreased Sensitivity," Dec. 6, 3 p.m., A-133 Barton Lab, NYS Agricultural Experiment Station, Geneva.

Poultry & Avian Sciences

"Structure and Assembly of Avian Retroviruses," Volker Vogt, biochemistry, molecular and cell biology, Nov. 30, 4:30 p.m., 300 Rice Hall.

Psychology

Cognitive Studies Conference, Alan Leslie, MRC, London, Dec. 1, 3:30 p.m., 202 Uris Hall.
"Using Neural Nets to Model Cortical Computation," David Zipser, University of California, San Diego, Dec. 7, 3:30 p.m., 202 Uris Hall.

Rural Development

A concluding group discussion of a six-week series on rural development issues will be held Nov. 30, noon, 250 Caldwell Hall.

Rural Sociology

"Land Use and Land Tenure in El Salvador," Samuel McReynolds, rural sociology, Dec. 1, 12:15 p.m., 32 Warren Hall.

Russian Literature

Glasnost Film Festival Panel, Dec. 4, 4:30 p.m., G-08 Uris Hall.

South Asia Program

"The Research Assistant's Point of View," Bhojv Ram Gujar, Government Middle School, Dhamniya, Rajasthan, Dec. 6, 4 p.m., Asian Studies Lounge, Rockefeller Hall.

Site work begins for Olin Library expansion

Preliminary work began this week for the Olin Library expansion as contractors started removing 16 trees from the lawn between Stimson and Goldwin Smith halls.

The trees, mostly oaks, will be transplanted at the orchards and other sites. Two zelkovas and a beech will be returned in about 18 months to their original spots along the north-south path that runs in front of Goldwin Smith. One beech will be transplanted next to the School of Hotel Administration atrium to replace one that died recently.

The tree work, which should take about 10 days, will be followed by three other site-preparation steps that are to begin on Dec. 26, according to Paul Griffen, associate vice president for facilities planning and construction.

Underground chilled-water pipes, which

provide air conditioning to nearby buildings, will be moved northward from the center of the building site to a new trench along the southern wall of Goldwin Smith; underground electrical cables that are encased in concrete mains will be moved eastward a few feet beyond the east rim of the site; and storm-drain and sewer pipes that run under the south end of the site will be rerouted to connect with existing pipes under the lawn near Day Hall, Sage Chapel and the south end of Olin Library.

Griffen is aiming to complete these jobs by the resumption of classes on Jan. 22. If work remains to be done then, however, he says every effort will be made to do the noisiest parts during off hours. For most of the winter and spring, the site will be dormant — the exception being the temporary removal in March of the exedra and sundial

opposite Goldwin Smith's south entrance. The most disruptive operation, excavation for the 95,000-square-foot expansion project, will take place between June and September.

By June 1991, the roof of the \$25 million underground structure will be sodded over, and the site will be largely restored as work continues underground for another nine months, Griffen said. When the new space is opened in spring 1992, the site will appear virtually identical to the way it looked before Thanksgiving.

In anticipation of the physical changes that will occur over the winter vacation, Dean Geoffrey Chester of the College of Arts and Sciences and Alain Seznec, the Carl A. Kroch University Librarian, wrote a letter this week to faculty in the College of Arts and Sciences.

They noted that relocating the chilled-water pipes meant Goldwin Smith's south end would be "temporarily disfigured." They said digging a new trench would require tearing down the stone steps, which would temporarily be replaced by "wooden structures [that] will provide continued access and egress at both the basement and first-floor levels" and eventually will be replaced by new steps.

"It was largely in response to the Arts faculty's priorities that this site was chosen for the addition of space to meet Olin's urgent need," the letter concluded. "We are certain the result will be a happy one; in the meantime, we beg your indulgence during those trying times that are inevitable despite everyone's best efforts."

—Sam Segal

Visiting chef



Don Albern

Johnny Rivers (right), executive chef at Walt Disney World, looks over some of the pastry offerings at Robert Purcell Union with John Dunai (left), executive chef of Cornell Dining Services, and student Jennifer Sparks. Rivers was on campus the week of Nov. 13 as part of Dining's guest-chef series. Among that week's special desserts were peanut butter pie, white cherries in puff pastry and Mickey Mouse ice cream bars.

Nutrition education volunteers will be honored by Mrs. Cuomo

Matilda Cuomo, wife of New York Gov. Mario M. Cuomo, will be the hostess for a reception at the Executive Mansion in Albany on Friday, Dec. 1, from 1 to 3 p.m., to honor 170 teachers and others from across the state for their role in introducing a set of three nutrition education programs to New York schools. The event is co-sponsored by Cornell.

Those to be honored will include home economics and health teachers, school administrators, Cornell Cooperative Extension agents and community agency representatives involved in teen-pregnancy programs. They have conducted more than 90 workshops across New York state to train their peers on how to use the "Nutrition for Life" teaching materials developed at Cornell.

Nutrition for Life is believed to be the most comprehensive approach to classroom nutrition education in the nation. The teaching materials consist of three programs covering students in all grades, from kindergarten through 12th, and are being used as a

model for schools in other states. In New York, the effort already reaches some 2 million students in more than 4,000 schools.

Also to be recognized at the reception will be seven nutritionists in Cornell Cooperative Extension and the Division of Nutritional Sciences, a joint unit of the College of Agriculture and Life Sciences and the College of Human Ecology. They wrote the teachers' guides, student work sheets, posters and audio tapes used in the Nutrition for Life program.

In addition, members of a 17-member advisory committee that has helped guide and support the nutrition education project since its inception in 1984 will be honored.

Mrs. Cuomo began the project in 1984, and the State Department of Health provided nearly \$2 million to support the effort, which was carried out by a team of Cornell nutritionists. Additional support for the project came from the state's Department of Education and General Foods Corp.

—Yong H. Kim

Getting people more involved is goal of state conference

To help citizens become more capable and involved in influencing public policy issues and to train them to teach these skills to others, the Family Community Leadership Statewide Institute will provide training to 120 Cornell Cooperative Extension staff and volunteers from Monday, Dec. 4, through Friday, Dec. 8.

Some 120 people are expected to attend the conference, beginning at 1:30 p.m. on Dec. 4 at the Watson Homestead, just north of Painted Post, outside of Corning.

The program, titled "Public Policy Education and Family Community Leadership in New York: Making a Difference," is sponsored by the W.K. Kellogg Foundation and Cornell Cooperative Extension. It kicks off the New York segment of the national Family Community Leadership (FCL) program developed in six western states.

The FCL initiative, also supported by Kellogg, resulted in training and the development of resource materials that support community leadership and public policy education programs in participating states. All FCL activities are planned and implemented with equal participation by volunteers and extension staff.

"Our New York program will focus on how to apply an eight-stage educational intervention model in addressing the issues identified by extension as being critical to families in New York state," said Alan Hahn, associate professor of human service studies in the College of Human Ecology,

who is helping to plan the conference.

The program begins with a detailed discussion of what is called the Issue Evolution Model, which describes how public issues are raised, debated and resolved. Throughout the conference, faculty members will give presentations on each stage of the model. Intermittently, the participants will break up into seven discussion groups, led by a team consisting of a faculty member, an extension agent and a volunteer, to focus on the issues.

These issues include child care, water quality, land use with specific attention paid to retaining agricultural land, family caregiving, education for youth at risk, access to food for families in poverty and housing affordability.

"In each of these discussion groups, the conferees will apply what they have learned about that stage in the issue-evolution process and learn which methods and educational materials would be most appropriate in helping citizens and policy makers resolve specific public issues," Hahn explained.

The participants will have the opportunity to practice their teaching skills in front of a group, applying what they have learned at the conference. In exchange for the training, participants are committed to providing 30 hours of support for educational programs on public issues with a team in their regions during the coming year.

—Susan S. Lang

Phone line, radio will advise of winter-weather closings

When the weather is snowy and frightful and your first thought is whether the university is open, your second thought should be to call the Cornell inclement weather phone at (607) 255-3377 for a recorded message on how weather and road conditions are affecting operation of the university.

In addition, if the university has been closed because of weather conditions, that decision will be announced on the weather phone and on 26 radio stations in the area, including stations in Ithaca, Binghamton, Elmira, Syracuse, Geneva, Watkins Glen, Owego and Auburn.

Call the Cornell inclement weather phone at (607) 255-3377 for a recorded message on how weather and road conditions are affecting operation of the university.

"If there is no announcement concerning Cornell, the members of the university community are to assume that the university will be open and operating as usual," according to Cornell's nine-page inclement weather policy and procedures.

However, employees who are regularly scheduled to start work prior to 5:30 a.m. are encouraged to call the 255-3377 number to obtain information because a decision regarding the university's operating status

may not be made by that time.

Cornell has four inclement-weather operating modes, as follows:

- **Delayed opening:** The entire university will be open and operating at a specified time.

- **Partial closing:** All offices are closed, but classes and examinations, libraries, Health Services, Residence Life, Dining, Unions and Activities, Physical Plant, Life Safety, Public Safety, and the Cornell Information and Referral Center will operate as usual.

- **University is closed:** Offices are closed and classes and examinations are postponed. The essential offices that continue to operate during a partial closing (above) will remain open during a complete closing.

- **Snow emergency:** The university will be open and will be operating as usual but no vehicular traffic will be allowed on central campus except emergency and service vehicles and buses. Any vehicle registered with the university will be allowed to park in A and B lots.

Computerized copies of the complete inclement weather policy, which includes information on how the various operating categories affect employee compensation, may be called up on CUINFO under the title Weather. CUINFO terminals are located throughout campus. Copies of the policy are available at the information desks of Olin, Uris and Mann libraries.

—Martin B. Stiles

Fungus continued from page 1

plant produces an anti-fungal chemical called pisatin. Many species of crop plants produce such chemicals, called "phytoalexins," which act like antibiotics, killing off most of the invading fungi.

However, the pea-invading fungus *Nectria haematococca* produces an enzyme called "pisatin demethylase" (pda) that detoxifies or degrades pisatin in pea plants,

thus overcoming the plant's defense.

To understand how that enzyme functions, Yoder and Van Etten and their group isolated the gene from the pea fungus that codes for the anti-pisatin enzyme and spliced it into a corn fungus called *Cochliobolus heterostrophus*, which normally cannot attack pea plants. Equipped with the gene from the pea fungus, the corn fungus

also produced the pisatin-detoxifying enzyme. The result: The genetically altered corn fungus could mount a successful invasion of the pea plant.

"In demonstrating for the first time that a fungus could be made to attack a totally different target, we now know beyond any doubt that the enzyme produced by the invading fungus plays the crucial role in

breaking down the pea's defense," Yoder said. "This explains why so many different types of fungi in nature cannot attack the pea."

Work by Yoder and Van Etten has been supported by the National Science Foundation, the U.S. Department of Agriculture and the Environmental Protection Agency.

—Yong H. Kim

Watch that deer

Student and professor say that collisions with cars may be six times more prevalent than is reported

Car-deer collisions in New York state may be four to six times more prevalent than earlier reports have indicated, according to two Cornell wildlife specialists. They also warn that chances of being involved in a car-deer collision are five times greater during the fall than the rest of the year.

Daniel J. Decker, an assistant professor of natural resources in the College of Agriculture and Life Sciences, and Kathlene M. Loconti, who graduated from Cornell this year, reported the findings of a study they conducted in the November-December issue of *The Conservationist*, a nature magazine published by the state Department of Environmental Conservation.

Their article, "When Two Worlds Collide: A Look at Deer-Car Accidents in New York," also offers suggestions on how to avoid colliding with deer on highways and on what to do if a collision occurs.

The New York State Department of Environmental Conservation reported that 9,500 deer were killed when hit by cars during 1988, but Decker said the Cornell study conducted in Tompkins County indicates there may be between 37,000 and 57,000 deer-car accidents throughout New York state each year. These accidents average about \$1,000 each in car damage.

Decker explained that one reason for the higher incidence of collisions during the fall is that deer breed during the season. As a result, adult males and females are more active than usual, increasing the chances that they will cross a road or highway, he added.

In addition, deer are most active during the hours just before and after dawn and dusk, when visibility for driving is generally poor, Decker pointed out. "The change from Daylight Savings Time to Eastern Standard Time in October results in most commuter traffic occurring during these periods of peak deer activity for the months of October, Novem-

ber and December," he said.

Motorists should be aware of how deer behave, he stressed. For one thing, deer seldom travel alone, he said. "If a doe crosses the road ahead of your vehicle, expect another to follow or the first one to run back across the road to rejoin its group. And because deer can be blinded and confused by the headlights of a motor vehicle, they may not move out of the way."

Decker and Loconti offer this advice for avoiding deer-car collisions on highways:

- When driving at night, scan the shoulders of the road for the reflection of headlights off the eyes of a deer.
- When a deer crosses the road, look for others to follow and watch whether the first one doubles back.
- Take special care in areas where roads are adjacent to croplands that attract hungry deer and patches of woods or hedgerows that provide cover.
- If a deer jumps onto the highway, do not swerve off the road or into the path of an oncoming car to avoid the animal. A collision with a deer is likely to be less disastrous than hitting a utility pole or another vehicle.

They also advised motorists to take the following steps if they do hit a deer:

- Do not attempt to move a live deer; its hooves can deliver a powerful kick.
- If the deer is dead, its eyes are open; it may be alive if its eyes are closed. Move the dead animal off the road so an oncoming car will not hit it or swerve to miss it, possibly causing another accident.
- Call a police or conservation officer to report the accident.
- If a deer is struck but manages to run away, notify police if damage exceeds \$600, as required by law in New York state.



Daniel J. Decker

John Pachai

"Keep alert. Drive defensively," they advised. "And remember that you do not have to be deep in the country to find deer; they live in and around most developed areas of our state, sometimes in places you would least expect."

—Yong H. Kim

Bargaining Institute strives to improve labor relations

Corporate mergers, declining union memberships, foreign ownership, new forms of compensation and active labor participation in management decisions are just a few of the trends changing the face of collective bargaining in the United States.

To confront these transitions and other challenges emerging in modern labor and management interactions, the School of Industrial and Labor Relations here has re-

vamped and revitalized the Cornell Institute of Collective Bargaining.

The institute's coming here represents a new initiative in a turbulent era in labor relations. The institute is now the only one of its kind that has representation from the academic, union, government and industrial sectors and is engaged in research, education and communication activities.

"The entire industrial relations system is undergoing enormous changes, and labor, management and government don't know what to do about them," said Harry Katz, a professor of collective bargaining at the ILR School and the recently named director of the institute.

"Improving industrial relations in the United States is not only essential for improving overall American industrial performance but it is also critical to our international competitiveness, to our economic success and to workers' quality of work life."

This fall, the institute began seeking sponsors from the various sectors and, within just a month, obtained a dozen, including several major corporations and unions. The 40 organizations that ultimately will sponsor the institute not only will provide financial support but will focus the research to address problems that they identify as critical.

The primary purpose of the institute is to better understand the changes under way in industrial relations and to ensure that labor and management adjust effectively, Katz said. These objectives will be pursued through an ongoing dialogue between re-

searchers and professionals and by drawing on the strengths of the ILR School, which has the largest collection of academics and researchers in the world dedicated to studying employment issues.

"Unions may have become less important, but it is a mistake to believe that labor and collective bargaining are not still central to the performance of the American economy. They are extremely important in the auto, steel, communications and airline industries, for example, and throughout the public sector," said Katz, the author of "The Transformation of American Industrial Relations," which received the award from the Academy of Management for being the most important book for 1988.

On the research front, institute members will identify gaps in the current knowledge and pursue appropriate research activities. Industry studies, dispute-resolution techniques and workplace operations, for example, are all within the institute's mission. The institute has also identified potential research themes that will attempt to:

- Define the shift in industrial relations to the strategic and workplace levels and to assess its effect on team systems and other changes in work organization.
- Explore the new forms of union organization and representation such as "associational unionism" that have been emerging and their effects on organizing success and internal union affairs.
- Determine the implications and consequences of the acquisitions and mergers on Wall Street, of changes in corporate ownership such as foreign or employee ownership,

and of downsizing on labor relations and employees.

• Examine how these national developments compare to those internationally and to glean lessons from abroad, including Japan and Western Europe.

To disseminate research findings, the institute will sponsor topical conferences, seminars, executive briefings, research reports and literature searches; provide networking contacts and advice; and foster professional/faculty/student interaction with the institute and its sponsors.

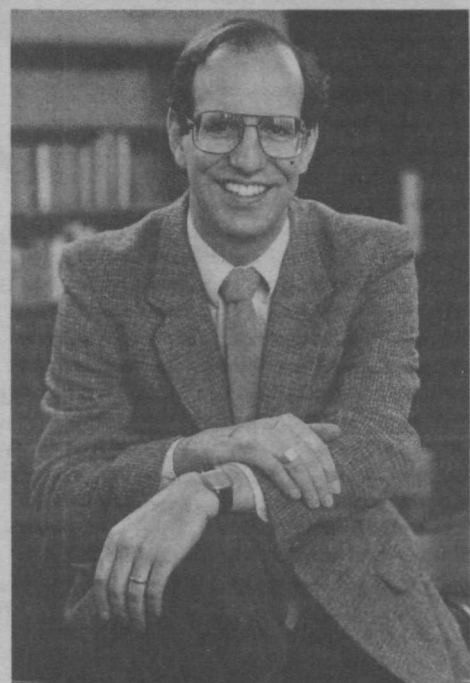
In addition, educational and targeted training programs for particular industries concerning transitions in collective bargaining will be conducted through the school's Extension Division.

Throughout the course of their work, staff and sponsors of the institute will continually strive to improve channels of communication between labor and management by incorporating such dialogue in its forums and conferences on particular issues.

"Labor relations still matters in a democracy, not only by directly affecting productivity and work conditions but also by sending very important signals to the rest of the economy," Katz said.

"Our hope is to explore its changing nature in a changing society. What will happen, for example, to American society if union memberships continue to decline? How will unions fit in our society into the 1990s? With our economy so internationally dependent, what will the role of labor be in political developments?"

—Susan S. Lang



Harry Katz

Chris Hildreth

CUMC gets \$6 million to study eyes

The New York Hospital-Cornell Medical Center has received a \$6 million grant from the Dyson Foundation to establish a major eye research center.

The grant will enable New York-Cornell to construct and equip an eye research laboratory complex that will occupy a full floor in the recently opened William and Mildred Lasdon Biomedical Research Center, an 11-story facility devoted to advanced research in the basic medical sciences.

In announcing the gift, Dr. Anne E. Dyson, president of the Dyson Foundation, said that the foundation and the Dyson family have supported ophthalmic research and clinical training at The New York Hospital-Cornell Medical Center for many years.

"The gift is being made at a critical

moment for basic biomedical research, when support from the private sector is desperately needed to develop the new knowledge in all areas of research made possible by recent extraordinary technological advances," Dyson said.

Dr. G. Tom Shires, dean of Cornell University Medical College, said, "I am extremely grateful for the far-reaching opportunities in eye research and training that will be made possible by the Dyson Foundation grant."

The new eye center will be named the Margaret M. Dyson Eye Research Institute in recognition of the long-time devotion to eye research and education programs of Margaret M. Dyson, a trustee of the Dyson Foundation. Her husband, Charles Dyson, established the foundation in New York City in 1954.

Arecibo finds first double asteroid

Astronomers working at Arecibo Observatory have obtained radar images of an asteroid that passed near Earth, revealing it as a rotating double object. Their images are the first views of the surface of a small asteroid.

The astronomers included Steven Ostro of the Jet Propulsion Laboratory of the California Institute of Technology, John Chandler and Irwin Shapiro of the Harvard-Smithsonian Center for Astrophysics and Alice Hine of Arecibo.

The radar images of the asteroid showed an irregular double body about one mile long, rotating like a propeller about every four hours. The astronomers made their observations in late August, a few days before the asteroid passed within 2.5 million miles of Earth, about 11 times the distance between Earth and the moon.

Theorists have speculated that some asteroids could consist of two or more bodies of similar size pulled together by their weak

mutual gravity.

"It is remarkable that the first image of a planetary body this small should show a double-lobed object," Ostro said.

The asteroid, first discovered by astronomers at Palomar Observatory in California, orbits the sun about every 400 days, traveling from beyond the orbit of Mars to a zone between Venus and Mercury and back. Although the asteroid passes near Earth's orbit frequently, it will not come within several million miles of Earth again for 50 years.

The astronomers plan further analyses of the radar images that will allow them to reconstruct its three-dimensional shape and better understand how the body might have been formed.

The 1,000-foot Arecibo Radar/Radio Observatory in Puerto Rico is part of the National Astronomy and Ionosphere Center, operated by Cornell for the National Science Foundation. The astronomers' observations were supported by NASA.

COMMENTARY

Store radioactive waste at Nine Mile Point plant

By Duane Chapman

Reprinted from the Nov. 16 Syracuse Post-Standard.

Where is New York state's nuclear waste going to be stored? The Low-Level Radioactive Waste Siting Commission, created by the State Legislature in 1986, is trying to locate a dump site in New York state to store low-level waste for the next 60 years.

Over this period, the state's nuclear power plants will constitute essentially all of both high-level and low-level nuclear waste, as hospital waste will be negligible. "High-level waste" is the term applied to nuclear fuel after power generation has increased its hazard level. It is dangerous for 100,000 years, as are some parts of a reactor. "Low-level waste" is the term given to most reactor waste because it is generally hazardous for several hundred years.

The primary source of both types of nuclear waste is New York's eight nuclear power plants. There are three each at Indian Point in the Hudson River and at Nine Mile

Point on Lake Ontario, and one each at Rochester and Long Island. These plants are the source of 99 percent of the radioactivity in New York's low-level waste. The probability is growing that high-level uranium fuel waste will never travel 3,000 miles to Nevada and will always be in New York. If this happens, nuclear power, through fuel waste plus reactor waste, will essentially constitute 100 percent of the state's nuclear waste.

Cortland County is being considered as a dump site by the commission. This is a more dangerous choice than storing the waste where it originates at existing nuclear power plants, because the waste has to be transported over long distances.

State agency and industry scientists have argued that storing the waste at existing nuclear power plants is unsafe. For example, storing the waste at Nine Mile Point might lead to water contamination.

But consider this: Operating a reactor is clearly the most hazardous aspect of the nuclear power process, as the Chernobyl and Three Mile Island accidents have shown.

The second most dangerous part of the process is fuel storage after its radioactivity increases through nuclear power operations.

The three Nine Mile Point nuclear power plants have been storing high-level waste on site since 1975, and all of the fuel waste ever produced there is still there today. Since Nine Mile Point is safe enough to store the most hazardous part of the nuclear power process, it makes sense to store all of the state's radioactive waste at that site.

If Nine Mile Point were used, the three large adjacent reservations already dedicated to nuclear power would be available. Because of its Lake Ontario location, all of the states' five other nuclear reactors could use ships for moving the large radioactive reactor components to the Nine Mile Point site. The three Indian Point plants on the Hudson River and Shoreham on Long Island would use the St. Lawrence River to reach Nine Mile Point. The Rochester plant would simply ship east on Lake Ontario to Nine Mile Point.

Since Oswego has gained the economic benefits of nuclear power through tax reve-

nue and employment, it is only equitable that Oswego assume the responsibility for waste storage. Since Nine Mile Point is the obvious location, why isn't it the leading candidate? Does anyone beside the nuclear power industry benefit from transporting and storing nuclear waste in Cortland County? It will cost billions of dollars to dismantle the Nine Mile Point reactors and relocate them 70 miles away in Cortland County. This will be charged to utility customers.

The important question here is the public interest. The desire for New York's utilities to relocate their nuclear waste to a state site is understandable, but what is obviously the best policy for the utilities is probably not the best public policy. Nuclear waste storage at Nine Mile Point needs to be given priority consideration.

Duane Chapman, a professor of resource economics, is a former economist at Oak Ridge National Laboratory and served on National Academy of Sciences panels that studied electricity and nuclear power.

Fun Run *continued from page 1*

tion that provides counseling and management assistance to small businesses.

Perosio's students were instructed to choose one of some 30 businesses and offer their counseling skills to its managers. Each week, they consulted with a teaching assistant and delivered business reports.

Talty, Neuman and Grant chose to work with 1970 Cornell graduate Mark Finkelstein, owner of Gun Hill Residences.

Finkelstein agreed to sponsor the run, providing \$2 to the Southside Community Center for each runner who participates,

with a minimum donation of \$500.

But the students did "99 percent of the work," from conception to completion, he said.

Their idea was born during a day of brainstorming and "playing with words," Talty said. Suddenly someone said, "Fun Run . . . Gun Fun Run . . . That's the best idea!" she recalled.

"We didn't realize exactly what was involved," she said. But they learned: "It's not simply snap your fingers and let's have a fun run."

"The number of people they have had to make contact with is just incredible," Perosio said. Among them were the Ithaca City Common Council and Ithaca police, and Cornell's Public Safety and insurance and risk management units.

The students worked with city and university staff to design the safest route and obtain permits for use of the roads. They also solicited advice on how to write liability waivers, for themselves and the university, in case a runner was injured.

The fun run was "innovative in that it

gets people down to Gun Hill" to publicize the business, Perosio said. "More important, it brings some of the issues of the homeless that exist in Ithaca onto campus."

As for Talty, the personal pay-off came another way, in a moment of conversation with Audrey Cooper, director of the Southside Community Center. Talty noted that Cooper said: "I'm so excited. You don't know how much this means to us." That's when I got a smile on my face that went ear to ear."

—Lisa Bennett

CALENDAR

continued from page 5

Southeast Asia Program

"Indonesian Politics and Militarism," Heri Akmati, visiting Humphrey scholar, Nov. 30, 12:20 p.m., 102 West Ave. Ext.

"The Mafia and Thai Politics," James Ockey, grad., government, Dec. 7, 12:20 p.m., 102 West Avenue Ext.

Stability, Transition & Turbulence

"The Curvature of Material Surfaces in Turbulence," Stephen Pope, mechanical and aerospace engineering, Dec. 5, 1 p.m., 203 Thurston Hall.

Statistics

Title to be announced, Brenda MacGibbon, mathematics, University of Quebec, Dec. 6, 3:30 p.m., 100 Caldwell Hall.

Theoretical & Applied Mechanics

"Localization Phenomena and its Application in Structural Dynamics," C. Pierre, University of Michigan, Dec. 6, 4:30 p.m., 205 Thurston Hall.

Vegetable Crops/Pomology

"No-Spray, Low-Spray and Go-Spray Systems for Weed Control in Orchards: Impact on Fruit Trees, Soil Water and Long-Term Soil Fertility," Ian Merwin, pomology, Nov. 30, 4:30 p.m., 404 Plant Science Building.

"The Effect of Storage Length, Temperature and Precooling on Sugar Content of Carrots," Andres Lopez-Camelo, vegetable crops, Dec. 7, 4:30 p.m., 404 Plant Science Building.

SPORTS

Home contests:

Friday, 12/1

Men's Jr. Varsity Hockey, Niagara Jr. B, 7:30 p.m.
Men's Polo, Yale, 7:30 p.m.

Saturday, 12/2

Men's Wrestling, Cornell Invitational, 10 a.m.
Women's Swimming, Columbia, noon
Men's Track, St. John's, 1 p.m.
Women's Track, St. John's, 1 p.m.
Women's Hockey, Providence, 1:30 p.m.
Men's Swimming, Columbia, 3:30 p.m.
Women's Polo, Yale, 8:15 p.m.

Sunday, 12/3

Men's Hockey, Harvard, 2 p.m.

Tuesday, 12/5

Men's Basketball, at Colgate, 7:30 p.m.

Wednesday, 12/6

Men's Jr. Varsity Basketball, Elmira J.V., 7:30 p.m.

SYMPOSIA

Cognitive Studies Program

A workshop on naturalistic epistemology, Dec. 2, 9 a.m. to 4:30 p.m. and Dec. 3, 9 a.m. to 3 p.m. in 202 Uris Hall. Speakers include: Lila Gleitman, psychology, University of Pennsylvania; Pat Hayes, Xerox PARC, Palo Alto; Alan Leslie, Medical Research Center, London; William Lycan, philosophy, University of North Carolina; Pat Kitcher and Philip Kitcher, philosophy, University of California; Lance Rips, psychology, University of Chicago; and Thomas Kuhn, philosophy, MIT, discussant. For further information, call Bev Scofield, 255-6431.

Soviet & East European Studies

The Glasnost Round Table, Dec. 4, 4:30 p.m., G-08 Uris Hall. Participants include: Urie Bronfenbrenner, David Bathrick, Patricia Carden, Yuri Orlov, Walter Pintner, Myron Rush and Michael Scammell.

THEATER

Department of Theatre Arts

"Marat/Sade" by German playwright Peter Weiss and directed by Bruce Levitt, will be presented Dec. 6, 7, 8 and 9 at 8 p.m., and on Dec. 10 at 2 p.m. in the Proscenium Theatre, Center for Theatre Arts, 430 College Avenue. Tickets at \$4 and \$6 are available by calling the Center Box Office at 254-ARTS.

Written in the early 1960s, "Marat/Sade" focuses on the Marquis de Sade who, while an inmate of the Asylum of Charenton, staged plays about the French Revolution that were performed by fellow prisoners. Weiss, a German playwright, wrote the play amid the devastation and reconstruction of Germany after World War II.

According to Theatre Department Chairman Bruce Levitt, director of the production, the central struggle in the staged plays revolves around deSade's ideal of an individual revolution through experience and Marat's opposing belief in a society transformed by forcefully incited mass movement.

"The asylum is a metaphor for the world — unpredictable, uncontrollable, spontaneous — deSade and his fellow inmates'actors represent the two poles of belief at the time of the French Revolution, trying to make sense out of it," Levitt explained.

"Parallel to Weiss' environment, deSade embodies Western democracy, while Marat exemplifies the Eastern dogma of communism."

Despite the fierce debate between deSade and Marat, no clear decision is ever reached. "I think Weiss left it open to suggest that the real voice of liberation was not represented by either Marat's or deSade's position; instead, genuine freedom may be a completely different ideal altogether," Levitt said.

Levitt's cast of 40 in "Marat/Sade" consists of resident professionals and students; often, all of them appear on stage at once. "This is the first full-scale play to be performed in the Proscenium Theatre, and the sheer number of actors appearing simultaneously on that huge stage made for very challenging rehearsals," Levitt said.

MISC.

Alcoholics Anonymous

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

Fuentes Observatory

Fuentes Observatory, situated on the hill behind Helen Newman Hall, will be open to the public every clear Friday night from 8 p.m. or dark until midnight. Call 255-3557 for information.

Hebrew Conversation Club

Hebrew Conversation Club meets Thursdays, 11:45 a.m. to 12:15 p.m., 374 Rockefeller Hall.

Macintosh Users' Group

MUGWUMP, the Macintosh Users' Group for Writers and Users of Mac Programs, meets on the first Thursday and second Wednesday of each month. Meetings are free and beginners are welcome. For more information, call Andrew Merkle, 277-2239.

Potshop

The Potshop will hold its annual Holiday Show and Sale Monday, Dec. 4, 5 to 8 p.m.; Tuesday, Dec. 5 through Friday, Dec. 8, 10 a.m. to 6 p.m., in the Willard Straight Hall Art Gallery.

Writing Workshop

Writing workshop walk-in service: free tutorial instruction in writing. Monday through Thursday, 3:30 to 5:30 p.m. and 7 to 10 p.m.; Sunday, 2 to 8 p.m., 178 Rockefeller Hall; Sunday through Thursday, 10 p.m. to midnight, 340 Goldwin Smith Hall; Sunday through Thursday, 8 to 11 p.m., Clara Dickson Macintosh Computer Room; Sunday through Thursday, 8 to 11 p.m., Noyes Center Browsing Library.

CORNELL EMPLOYMENT NEWS

November 30, 1989

Including Job Opportunities

Volume 1, Number 46

The 1989 Official University Winter Holiday Schedule

Holiday	Day of Observance
Winter Holiday	Monday, December 25, 1989
	Tuesday, December 26, 1989
	Wednesday, December 27, 1989
	Thursday, December 28, 1989
	Friday, December 29, 1989
	Monday, January 1, 1990

For the past few years, nonacademic units which provide services to the general public, students, faculty and/or other staff have been required to remain open on workdays immediately preceding and following a holiday period.

If you have any questions, please contact Employee Relations at 5-7206.

Red Cross Blood Drive

Sponsored by the Cornell University Wellness Program

November 30, 1989

Helen Newman Hall Lounge

10:00 a.m. - 3:45 p.m.

Call 255-5133 for more information

For every pint donated 2-3 lives may be saved!

No Increase in Empire Plan Rate in 1990

There will be no rate increase in the employee contribution for the Empire Plan in 1990. The biweekly contribution for Empire participants will remain \$7.42 for Individual Coverage and \$30.90 for Family Coverage. There will also be no change in the plan provisions -- deductible and copays stay the same.

Increases for HMOs will vary from HMO to HMO. Employees may contact the Statutory Benefits Office to find out what their HMO employee premium contribution rate will be in 1990.

Because New York State distributed 1990 rate information late in the Option Transfer Period, the **OPTION TRANSFER PERIOD HAS BEEN EXTENDED UNTIL DECEMBER 20, 1989.**

Employees wishing to change their health insurance option must complete, date and sign a Health Insurance Enrollment Form (PS-404). If they are also enrolling in an HMO, they must complete an HMO Enrollment Form. (There are no HMOs in the Ithaca area.) All completed forms must be returned to the Statutory Finance and Business Office, B-22 Mann Library no later than December 20, 1989. No action is required of employees who wish to keep the health insurance coverage they presently have.

REMINDER: The deadline for Select Benefits and Life Insurance has been extended to December 15, 1989. Employees will have until December 15 to return Select Benefits and Life Insurance enrollment forms and cards to the Statutory Benefits Office.

Hiring and Reclassification Freezes

The annual university hiring freeze will be in effect November 30 through January 1, 1990. In addition, a freeze has been placed on the reclassification of all nonacademic, exempt positions and all academic extension and research associate positions effective Nov. 30.

The freeze is due to the university-wide Classification Review Study now under way. Requests for exceptions to the hiring or reclassification freezes must be submitted in writing to Anita Harris, manager of Compensation, 111 Day Hall.

Annual Open Enrollment Period Extended Until December 15

The open enrollment period for life insurance, select benefits and the endowed healthcare program administered by Aetna will be extended as a result of the problems with mailing of benefits packets to employees' home addresses.

Faculty and staff will have until December 15 to return enrollment forms and cards to the Benefits Office, 130 Day Hall.

Staffing Services, 160 Day Hall, Cornell University, Ithaca NY 14853-2801

Day Hall: (607) 255-5226

East Hill Plaza: (607) 255-7422

- **Employees may apply for any posted position with an Employee Transfer Application. A resume and cover letter, specifying the job title, department and job number, is recommended. Career counseling interviews are available by appointment.**
- **Requests for referral and/or cover letters are not accepted from external candidates unless specified in the ad. Candidates should submit a completed and signed employment application which will remain active 4 months. Interviews are conducted by appointment only.**
- **Staffing Services will acknowledge receipt of all material by mail. Hiring supervisors will contact those individuals selected for interview by phone; please include two or more numbers if possible. When the position is filled, candidates should receive notification from the hiring supervisor.**
- **Cornell University is an Affirmative Action/Equal Opportunity Employer.**
- **Job Opportunities can be found on CUINFO**

The Thanksgiving Holiday Schedule: Requisitions received by noon Thursday, November 16, will be posted November 30. Requisitions received after noon, Thursday, November 16, will be posted December 7.

The hiring freeze, which affects the hiring of external candidates for regular positions, will be from November 30-January 1. However, interviewing may continue during this period of time and offers, effective January 1, can be made. Hiring employee candidates and temporary employees is not affected by the hiring freeze.

Professional

Nonacademic professional positions encompass a wide variety of fields including management, research support, computing, development, finance and accounting, dining services and health care.

Submit a resume and cover letter for each position, specifying the job title, department & job number. Employees should include an Employee Transfer Application.

Production Editor (PA9403)

C.U. Press-Endowed

Coordinate and supervise work on manuscripts that are assigned by the Managing Editor. Act as a liaison among freelance copyeditor, Press staff, and authors, and serve as a project manager from a manuscript's arrival in the department through to bound books.

Requirements: Bachelor's minimum. Several years experience in the editing department of a scholarly, scientific, or trade publisher. Send cover letter and resume to Cynthia Smithbower by December 15.

Senior Graphics Designer/Art Director (PA9503)

HR/II University Development-Endowed

Create and carry out effective visual themes and concepts for major, university-wide fund-raising communications, including Communique and other newsletters, case statements, brochures, logos, letterhead, annual reports, event invitations and

programs, and posters. Use graphic techniques, illustrations, photographs and typography to enhance effectiveness of written messages and to increase constituents' awareness and understanding of Cornell priorities, needs and programs.

Requirements: Bachelor's or equivalent in commercial art, fine art or advertising design. 3-5 years experience as an art director, either in a university or advertising agency. Creativity and imagination. Superior ability as a designer and illustrator, with particular understanding of the role of design in motivation. Expert command of all graphic tools. Thorough knowledge of state-of-the-art techniques in printing and their cost effective application. Willingness to develop and maintain familiarity with University and Public Affairs structure and priorities. Strong interpersonal skills, including flexibility and sensitivity to needs of diverse clients. Demonstrated ability to meet job requirements. Ability to adjust output to heavy demand as it occurs.

Research Support Specialist III (PT8908) HR/II Agricultural Economics-Statutory

Using a large farm-level data set, plan and conduct research on the economics of electric energy use in commercial agriculture; assist in the preparation of research reports and articles for extension audiences. 3 year appointment.

Requirements: Master's or equivalent in agricultural economics or related field. 3-4 years experience. Working knowledge of both micro and mainframe computing. Send cover letter and resume to Judith Stewart.

Technical Specialist I (PT8109) Level 36 CIT/Network Resources-Endowed

Provide high level problem diagnosis support to the Network Operation Center and its clients. Install and maintain network router software, tables, files and monitoring tools. Consult with network clients on software interface issues. Act as liaison to national networks for operational software issues.

Requirements: Bachelor's or equivalent with appropriate coursework in related field. 3-5 years experience with network software with emphasis on TCP/IP and UNIX. Knowledge of several of the following areas is highly desirable: DECNET, syn-

chronous and asynchronous data streams, token ring, ethernet and Appletalk. Send cover letter and resume to Judith Stewart.

Systems Analyst III (PT9401) Level 34 HR/II DL-Quality Milk Promotion Services-Statutory

Analyze, design, develop, implement and document computer applications for Quality Milk in a network and micro environment having interaction with other hardware and software systems. Work with staff to analyze project data.

Requirements: Bachelor's or equivalent with 3-5 years experience required. Statistical experience desirable. 1-2 years experience in analytical/problem solving with micros. Strong background and knowledge of DBASE III+ as well as experience in editing existing DBASE program required. Knowledge of word processors, utility programs, MS-DOS operating system, and IBM compatibles required. Strong interpersonal and communication skills. Send cover letter and resume to Judith Stewart.

New Technologies Specialist (PT9105) Level 34 CIT-MOS Consumer Services-Endowed

Coordinate the definition, development and implementation of new information technologies programs, such as facsimiles, high performance workstations and local area networks.

Requirements: Bachelor's or equivalent; experience in area supervision preferred. Experience with complex applications and platforms of a wide range of integrated information technologies critical. Ability to work with public and determine priorities. Excellent communication and writing skills desirable. Send cover letter and resume to Judith Stewart.

Systems Programmer/Analyst III (PT7101) Level 34

Information Technologies-Endowed

Design, develop, modify, implement and document fairly complex software programs and applications packages for major operating systems on small and large-scale computer systems. Provide user support in identifying technical problems.

Requirements: Bachelor's or equivalent with

computer related courses required. 3-4 years programming and machine architecture experience; knowledge of system utility and control languages (e.g., DCL and shell scripts). Sound knowledge of several operating systems (e.g., UNIX, VMS), Assembler language and at least 2 major programming languages (e.g., FORTRAN and C). Knowledge of UNIX and other workstation operating systems. Send cover letter and resume to Judith Stewart.

Applications Programmer/Analyst III (PT7302) Level 34

Lab of Nuclear Studies-Endowed

Diagnose and fix accelerator problems related to control systems software. Coordinate general accelerator-related application program development by physicists and engineers.

Requirements: Bachelor's in Physics or equivalent experience with computer courses. Strong physics background necessary. 3-5 years related experience. Experience in laboratory and research-oriented equipment. Send cover letter and resume to Judith Stewart.

Systems Programmer/Analyst II (PT9507) Level 33

CRSR-Endowed

Maintain the Space Sciences Sun Microsystems server and network and a Vax 750 computer operational. Develop and maintain necessary software to fulfill the operational requirements of Astronomy/Space Science users. Be responsible for the trouble shooting of hardware problems. Provide software consulting.

Requirements: Bachelor's or equivalent. 2-3 years experience in computer operation and programming. Knowledge of the Unix operating system and or Fortran Program is essential. Send cover letter and resume to Judith Stewart.

Systems Programmer/Analyst II (PT9508) Level 33

Materials Science Center-Endowed

Support the Materials Science Center's computing facility. The duties will include system administration of a UNIX-based Convex minisuper computer,

maintenance of peripherals and local area networks, and assistance with the computing needs of the MSC researchers.

Requirements: Undergraduate degree in computer science, engineering or physical science. Ability to design, develop and maintain complex software. Ability to install and maintain complex hardware systems. Must have programming experience in C and FORTRAN. Assembly language experience helpful. Must be able to communicate and interact well with faculty and graduate students. Familiarity with IBM PC or Apple Macintosh or UNIX. Send cover letter and resume to Judith Stewart.

Systems Training Specialist (PT8801, PT8802) Level 33

University Development-Endowed

Provide training for division staff in the use of the Public Affairs Computer System (PACS) and supporting equipment. Analyze user needs for computer and general office systems with the goal of optimum information sharing capability.

Requirements: Bachelor's or equivalent. 1-2 years related experience in personal computers (IBM or Mac) and mainframe computing. Network/LAN experience helpful, as is familiarity with Development and the CU PACS. Excellent written, oral communication, and teaching skills with ability to communicate computer applications in non-technical terms. Send cover letter and resume to Judith Stewart.

Applications Programmer/Analyst II (PT5133) Level 33

Finance and Business Office-Statutory

Develop, install, maintain, document, and modify administrative systems software. Under general supervision, provide administrative system's applications programming/analysis support for various areas. Assist in insuring efficient and effective use of computer resources.

Requirements: Bachelor's with computer-related courses or the equivalent combination of experience is required. Knowledge of Cornell mainframes, JCL, MVS, CMS, COBOL, Natural and ADABAS. Knowledge of IBM System 36 and its functions. 2-3 years experience with machine architecture, programming languages, productions procedures and system utility programs desirable. Send cover letter and resume to Judith Stewart.

Technical Consultant I (PT9303) Level 32
School of Hotel Administration-Endowed

Under the supervision of the area manager, provide assistance in the installation and maintenance of application software and hardware enhancements. Provide consultation with students, faculty and staff on computer problems; trouble shoot micro/mini computer problems. Assist users with technical problems and assist the area manager when requested.

Requirements: Bachelor's or equivalent in computer technology. At least 2 years experience in programming in 2 or more high level languages. Experience in computer technology covering DOS, Apple, Macintosh, VMS and Unix operating systems. Excellent communication skills and service-oriented attitude extremely important. Willingness to learn new skills and adapt to rapidly advancing changes in hotel and computer technology necessary. Send cover letter and resume to Judith Stewart.

Applications Programmer/Analyst I (PT9301) Level 32

Financial Systems Development-Endowed

Develop, maintain, and document administrative systems software. Provide user support for various computing environments (micro/mini/mainframe). Assist in insuring efficient and effective use of computer resources.

Requirements: Bachelor's or equivalent with computer related courses required, or a minimum of 1-2 years related experience with hardware/software, programming languages, production procedures and system utility programs. Mainframe JCL, MVS operating environment, CMS, DOS, and ADABAS with some IBM system 36 experience. Send cover letter and resume to Judith Stewart.

Applications Programmer I (PT9007) Level 32
Cooperative Extension-Statutory

Develop, modify, implement, maintain and document software applications on University mainframes and micro-computer system in support of Cornell Cooperative Extension's use of electronic technology.

Requirements: Bachelor's or equivalent in Computer Science, Engineering or Mathematics preferred. 1-2 years of experience in computer programming. Previous experience with C or Pascal languages, and with UNIX and VMS preferred. Experience with SAS and MACSYMA desirable. Send cover letter and resume to Judith Stewart.

Applications Programmer/Analyst I (PT6908) Level 32

School of Hotel Administration-Endowed

Provide computer, database and research support to faculty and students in developing and maintaining large databases and in the preparation and dissemination of research reports. Design and create files and programs to maintain the computerized database center. Provide on going support in areas of statistics and user system design.

Requirements: Bachelor's or equivalent with

background in computer, statistics or related areas required. Minimum 1-2 years previous experience. Knowledge of Macintosh, IBM PC, Mainframe database manipulation, statistics and statistical packages. Must have excellent oral and written communication skills. Ability to work independently, generate ideas and professionally represent the school in the computer/database areas. Ability to handle pressure and meet deadlines. Good interpersonal skills. Send cover letter and resume to Judith Stewart.

Program Coordinator II (PA9303) HRI
Engineering Dean's Office-Endowed

Assist the Associate Dean in the administration of a new Continuing Education program using satellite communication technology to broadcast graduate engineering courses to corporate sites. Responsibilities include public relations with participating corporations, organizing new office procedures, managing and implementing data base requirements, developing guidelines and managing procedures for student registration, establishing and coordinating all administrative functions with faculty, students and sponsoring corporations. This is a high profile position which offers an excellent opportunity for professional growth as the program develops.

Requirements: Bachelor's or equivalent in business, economics, or similar discipline. Background in education or training preferred. 2-3 years related experience. Must be able to work independently and adapt to changing environment. Must be a self starter. Send cover letter and resume to Cynthia Smithbower.

Financial Analyst I (PC9413) HRI

Veterinary Administration-Statutory

Provide support to the Director of Financial Services and Veterinary College Administration with financial and other data analysis and reporting. Develop and maintain College database resources and procedures.

Requirements: Bachelor's or equivalent in accounting or business administration. 2-3 years related experience. Very strong analytical ability. Able to manage long-term goals within a context of busy day-to-day deadlines. Good working knowledge of PC/MS-DOS and spreadsheet and/or database programs. Strong interpersonal and communication (written) skills. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

Senior Writer II/Editor (PC9504) HRI
University Development-Endowed

Take ultimate responsibility for producing 4 to 6 annual issues of Communique—University Development's chief communication to 12,000+ donors and volunteers—either delegating or taking direct responsibility for all stages from conception through publication. Write proposals, biographies, and draft presidential correspondence. Manage department in director's absence, provide guidance to staff members on fund-raising and communications issues, and represent department at occasional meetings.

Requirements: Bachelor's or equivalent. 2-3 years related writing/editing experience. Experience in publications management. Sophisticated knowledge of fund-raising and communications strategies. Superior writing and editing ability. Ability to sustain high work quality and meet deadlines during peak work-load periods. Familiarity with Cornell's academic and administrative departments helpful. Send cover letter, resume and writing sample to Esther Smith, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

Development Assistant (PA9501, PA9502) HRI
University Development-Endowed

Assist the Associate Director of the Cornell Fund in the planning and implementation of the University's annual campaign and provide assistance with major reunion campaigns. Design and implement fund raising programs within the Cornell Fund. Enlist and work with alumni and student volunteer leaders. Coordinate Cornell Fund special events and meetings.

Requirements: Bachelor's or equivalent. 1 year of related experience preferred. Excellent communication and interpersonal skills. Some prior knowledge of fund raising through professional or volunteer experience. Ability to communicate with a diverse alumni and student body. Knowledge of Cornell desirable. Send cover letter and resume to Cynthia Smithbower by December 8.

Career Services Associate (PA9401) HRI
Johnson Graduate School of Management-Endowed

Supervise the development of all career planning activities and related activities for MBA students in Ithaca and out of town for the Johnson School. Plan, organize and implement all interview, resume and job search workshops and counseling programs. Assist Director with corporate relations and company visits.

Requirements: Bachelor's or equivalent plus a minimum of two years experience in placement activities and/or counseling students; Master's in academic counseling preferred. Corporate experience may be substituted for direct experience at the college level. Excellent written and verbal communication skills; writing skills crucial. Send cover letter and resume to Cynthia Smithbower by November 30.

Applications Programmer II (PT5801) HRI
Hotel Administration-Endowed

Utilizing a microcomputer and university mainframe (SAS/SPSSx), provide programming and consulting support for research and instructional computing.

Requirements: Bachelor's or equivalent, coursework in computing or related fields. 2-3 years experience. Substantial knowledge and experience of SAS or SPSSx. Knowledge of hospitality software desirable. Familiarity with microcomputer hardware and software. Light typing. Send cover letter and resume to Judith Stewart.

CADD Coordinator (PT8901) HRI
Facilities Engineering-Endowed

Lead the department's effort in Computer Aided Design and Drafting (CADD). Provide the coordination for design and drafting using computer-based drawing tools. Working with Facilities Engineering designers and engineers, draft engineering and architectural drawings.

Requirements: Bachelor's or equivalent in engineering, construction, or architectural technology. Minimum 2-3 years related work experience. Proficient in the production of computer generated drawings. Knowledge and experience in the management of CADD records necessary. Excellent communication skills. Send cover letter and resume to Judith Stewart.

Research Support Specialist II (PT8811) HRI
Agronomy-Statutory

Co-manage Cornell Analytical Laboratory; perform non-routine chemical analyses; maintain laboratory information management programs and computer local area network; evaluate new laboratory equipment; make recommendations for equipment needs. Responsible for overseeing maintenance and repair of existing equipment.

Requirements: Master's or equivalent in soil science or analytical chemistry or Bachelor's with appropriate experience. 2-3 years experience in chemical analysis and laboratory operations desirable. Experience with atomic absorption, atomic emission, infrared spectroscopy, automated analytical systems, and classical wet chemical procedures essential. Knowledge of computers and data handling operations is required. Send cover letter and resume to Judith Stewart.

Research Support Specialist I (Laboratory Manager) (PT8502) HRI
Physiology-Statutory

Independent, resourceful individual sought to manage (under faculty supervision) and supervise grant-related research, teaching, and technical training activities of physiology laboratory. Assist in planning of experiments using in vitro microperfusion of renal tubules; Ramsay assays for fluid secretion; electron probe analysis of small fluid volumes; intracellular measurements with ion-selective microelectrodes. Participate in other research related activities.

Requirements: Bachelor's in biology, chemistry or other science or equivalent. 2-3 years experience preferred. Send cover letter and resume to Judith Stewart.

Professional Part-time

Executive Staff Assistant (PC9505) HRI
Near Eastern Studies-Endowed

Assist the Director of the Jewish Studies Program with the coordination and execution of fundraising activities. Author and implement grant proposals to foundations for major fundraising campaign; coordinate related fundraising activities; conduct on site program office interviews in New York City. Monday-Friday, 4 hours per day.

Requirements: Bachelor's or equivalent. Minimum 3 years writing experience with at least 1 year public relations office work desired. Experience working in an academic environment. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

Research Support Specialist I (PT9204) HRI
Division of Nutritional Sciences-Statutory

Provide support in the planning, administration and evaluation of the New York State Surveillance Program. Travel within New York State collecting state-wide data from existing information management systems. Manipulate data sets and provide descriptive data analysis. Prepare oral and written reports, including those for state agencies and various journal articles. Monday-Friday, 20-30 hours per week until 3/31/91; continuation contingent upon funding.

Requirements: Master's or equivalent in nutrition, health or human services preferred. 1-2 years experience working with nutrition, health or social science data on micro and mainframe computers. Good organizational and interpersonal skills. Send cover letter and resume to Judith Stewart.

Technical

As a prominent research institution, Cornell University has a diverse need for laboratory, electro/mechanical and computer support. Individuals with backgrounds in computer science, biology, microbiology, chemistry, animal husbandry, plant science and medical laboratory techniques are encouraged to apply; applicants with ASCP or AHT

licenses are in particular demand.

Submit a resume and cover letter for each position, specifying the job title, department and job number, to Judith Stewart, 160 Day Hall. Skill assessment check lists, available at the Day Hall office, are a valuable aid when applying for computer or laboratory related positions.

Electronics Technician, GR20 (T9501)
Theory Center-Endowed

Minimum Biweekly Salary: \$558.78

Responsible for installing and maintaining computer-related equipment and other Theory Center equipment.

Requirements: Bachelor's or equivalent in electronics. 1 year experience wiring various networks helpful; computer experience helpful but not required; ability to work independently essential; good communication skills.

Technician, GR20 (T9505)

Floriculture and Ornamental Horticulture-Statutory

Minimum Biweekly Salary: \$558.78

Assist the faculty supervisor in conducting a research and extension program in turfgrass science. May be responsible for supervising 1 or 2 workstudy students. 2 year position.

Requirements: Bachelor's or equivalent in plant science or related field. Minimum 1-2 years experience in a turf related position. Must be willing to travel to distant areas in the State. Must be able to work independently and must be willing to work with chemicals, fertilizers and pesticides. Must have and maintain a valid New York State driver's license. Must obtain Pesticide Certificate within 3 months.

Technician, GR20 (T9402)

Plant Breeding and Biometry-Statutory

Minimum Biweekly Salary: \$558.78

Assist in genetic mapping of RFLP markers in tomato. Extract DNA; run and blot gels; isolate and screen plasma clones; radiolabel probes; manage computer data file; analyze genetic data on computer; assist in overall maintenance of lab; prepare solutions; order supplies; monitor safety. Possible supervision of graduate students.

Requirements: Bachelor's in biology, genetics, biochemistry, or related field. 1 year lab experience preferred.

Computer Operator, GR21-24 (T9506)

Information Technologies/Computer Resources-Endowed

Minimum Biweekly Salary: \$582.29

Operate large scale computer systems and associated peripheral equipment; monitor data communication networks; consult with vendor customer engineers and department support staff; shift work including weekends.

Requirements: Associate's or equivalent combination of education and experience in large system environment. Minimum 3 years computer operating experience; related data communications experience helpful. Knowledge of computer hardware, software, operating systems, and programming languages. Valid NYS driver's license. Able to lift 50 pounds.

Technician, GR21 (T8613)

Veterinary Medical Teaching Hospital-Statutory

Minimum Biweekly Salary: \$582.29

Perform diagnostic tests in hematology, cytology, coprology urinalysis, chemistry and immunology. Operate and maintain equipment; use computer for specimen accession, data entry and information retrieval. Full-time, Tuesday-Saturday, with rotating "on call" for off hours and holidays.

Requirements: Associate's or equivalent in medical technology required; Bachelor's preferred. ASCP certification preferred. 1-2 years related experience preferred. Supervisory ability desired.

Technical Part-time

Animal Health Technician, GR20 (T9504)

Veterinary Medical Teaching Hospital-Statutory

Minimum full-time equivalent: \$558.78

Take radiographs, process films of animal patients and research materials as required. Monday-Friday, 5:30 p.m.-9 p.m.; Saturday 8 a.m.-4 p.m.

Requirements: NYS Licensed Animal Health Technician and/or Licensed Radiologic Technician. Minimum 1-2 years experience handling animals preferred.

Technician, GR20 (T9202)

Biochemistry-Statutory

Minimum full-time equivalent: \$558.78

Assist with culturing bacteria; perform enzyme purification and assay. Perform general lab duties. 30 hours per week.

Requirements: Bachelor's or equivalent required; coursework in biochemistry and microbiology desired. 1 year practical lab experience in a biochemical/microbiological lab including chromatography, spectrophotometer, and gel electrophoresis.

Technical Temporary

Clinical Lab Technician

University Health Services

Temporary full or part-time days, rotating Saturday half-day. Perform diagnostic tests in Hematology,

Chemistry, Urinalysis and Serology. Phlebotomy experience necessary.

Requirements: Medical technology training required, ASCP certification preferred. Hospital experience preferred. Appointment for 3-4 months. Send cover letter and resume to Tami Hastings.

Office Professionals

Approximately half of all University openings are for Office Professionals. Individuals with secretarial, word processing (IBM PC, Macintosh, Wang, Micom), data entry, technical typing, or medium to heavy typing (45-60+ wpm) are encouraged to apply.

Submit a signed employment application and resume. Requests for referral and/or cover letters are not accepted from external candidates unless specified in the ad. Qualified applicants will be invited for a preliminary interview at our East Hill Plaza office.

Cashier, GR15 (C9414)

Statler Hotel-Endowed

Minimum Biweekly Salary: \$460.20

Perform cashiering duties in all food and beverage outlets. Accurately records the sales and settles the checks. Some nights and weekends.

Requirements: High School diploma or equivalent. Able to read and write English. Good basic math skills. 6 months-1 year related cashiering experience in a high-volume setting. Excellent people skills.

Switchboard Operator, GR16 (C8716)

Statler Hotel-Endowed

Minimum Biweekly Salary: \$477.46

Coordinate all incoming and outgoing phone calls for staff and guests using computerized phone switching system. Hours, 3-11; flexible nights and weekends.

Requirements: High School diploma or equivalent. Basic reading, writing and communication (verbal) skills. Knowledge of foreign languages helpful. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

Office Assistant, GR17 (C9501)

Office of Trusts and Estates-Endowed

Minimum Biweekly Salary: \$495.36

Distribute materials; make distribution and file copies; assist with mailings; put together information for meetings; maintain complex filing system; act as office switchboard operator; prepare and type correspondence and business forms.

Requirements: High School diploma or equivalent. 6 months-1 year experience preferred. Familiar with word processing equipment and IBM-PC (Wordperfect). Maintain confidentiality and pay attention to details. Flexibility to work under often changing deadlines and pressure. Medium typing.

Office Assistant, GR18 (C9506)

School of Hotel Administration-Endowed

Minimum Biweekly Salary: \$513.94

Responsible for assisting the administrative assistant in carrying out policies and procedures for the Master of Professional Studies program, including admissions and registrations. Type, file, answer inquiries regarding the MPS programs; heavy student contact.

Requirements: High School diploma or equivalent. Some college coursework preferred. 1 year related experience. Wordprocessor skills required. Good administrative and organizational skills. Strong interpersonal skills. Medium typing.

Senior Records Assistant, GR18 (C9405)

Serials, CTS, Olin Library, CUL-Endowed

Minimum Biweekly Salary: \$513.94

Under the supervision of the NOTIS Record Conversion Coordinator, be responsible for updating serial holding records and for conversion of manual check-in records to NOTIS Order/Pay/Receipt records.

Requirements: High School diploma or equivalent; additional academic or clerical training desirable. Previous library experience helpful. Reading ability in foreign language helpful. Able to perform detailed work accurately; strong organizational, interpersonal and communication skills. Light typing.

Night Auditor, GR18 (C8921)

Statler Hotel-Endowed

Minimum Biweekly Salary: \$513.94

Review, verify and record revenue for the entire hotel; utilize the property management system to generate all necessary reports; perform duties as front desk clerk. 11-7, nights and weekends.

Requirements: High School diploma or equivalent. Some college coursework preferred. 1-2 years accounting/bookkeeping experience. Knowledge of computers. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

Advertising and Promotion Assistant, GR19 (C9503)

C.U. Press-Endowed

Minimum Biweekly Salary: \$535.78

Provide assistance to the department in all aspects of advertising and promotion. Type letters, reports, etc.; handle mail; answer inquiries (telephone and letter). Other duties as assigned.

Requirements: Associate's or equivalent. Knowl-

edge of wordprocessing. Good writing skills. Close attention to detail. Heavy typing. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

Administrative Aide, GR19 (C9512)

University Development-Endowed

Minimum Biweekly Salary: \$535.78

Perform administrative and secretarial duties for Office of Special Gifts. Schedule appointments; answer telephone; distribute mail, etc.; assist in preparing and coordinating all correspondence for presidential letters; help in coordinating arrangements for Campus Visits Program; maintain reference materials.

Requirements: High School diploma or equivalent. Some college coursework preferred. 1 year related experience. Excellent secretarial, organizational and interpersonal skills. Experience with PC's. Able to work with computer inquiry programs. Knowledge of word processing equipment (Olivetti), displaywriter or equivalent, and dictation equipment. Good telephone techniques. Familiar with University Travel Office helpful. Medium typing.

Administrative Aide, GR19 (C9507)

Natural Resources-Statutory

Minimum Biweekly Salary: \$535.78

Provide administrative support for activities of campus and field Extension staff, and other publics. Organize, maintain and distribute large volume of publications; arrange meetings and travel; prepare correspondence, reports, newsletters, news releases, articles for publication, grant proposals, and transcribe dictation.

Requirements: High School diploma or equivalent. Some college coursework preferred. 2 years business/administrative secretarial experience. Computer proficiency (IBM PC and Mac) in WordPerfect 5.0 required. Dictaphone transcription required. Knowledge of CENET electronic mail preferred. Excellent communication skills essential. Database management experience highly desirable. Able to work independently, under pressure and set priorities. Heavy typing.

Accounts Assistant, GR19 (C9509)

Clinical Sciences-Statutory

Minimum Biweekly Salary: \$535.78

Responsible for interdepartmental charges, C.U. Stores billing, weekly deposits, petty cash; will post daily to MUMPS Financial Management Systems and reconcile MUMPS to SF & BS statements monthly; using Lotus 1-2-3, prepare and analyze monthly account reports.

Requirements: High School diploma or equivalent. Some college coursework preferred. 2 years related experience in Cornell accounting preferred. Competency in Lotus 1-2-3 required. Ability to use word perfect preferred. Good communication (oral/written) skills essential. Light typing.

Relief Night Auditor, GR19 (C9007)

Statler Hotel-Endowed

Minimum Biweekly Salary: \$535.78

Review, verify and record hotel revenue. Generate reports through property management systems; perform duties of night manager. Coordinate and participate in front desk, concierge and bellstaff activities to provide guest service.

Requirements: High School diploma or equivalent. Some college coursework preferred. 1-2 years hotel front office/accounting experience required. Knowledge of computer systems required. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

Circulation/Reserve Supervisor, GR20 (C9511)

Music Library/CUL-Endowed

Minimum Biweekly Salary: \$558.78

Facilitate access to and circulation of the collections of the Music Library. Supervise student assistants and night supervisors. Provide reference service to patrons; assist patrons in use of audio, video and computer equipment; participate in the maintenance of bibliographic information. Be responsible for reserve operation and overdues, fines and billings for lost and late materials; maintain student budget; oversee library in the absence of the librarians.

Requirements: Bachelor's in music or equivalent with emphasis in music history preferred. Library experience desirable. Outgoing, service oriented person able to work effectively with faculty, students and staff. Supervisory skills. Reading knowledge of 1 foreign language (prefer German). Light typing.

Administrative Secretary, GR20 (C9401)

Asian Studies-Endowed

Minimum Biweekly Salary: \$558.78

Provide administrative/secretarial support for the chairperson staff. Serve as the graduate field secretary for 2 fields; course and room schedule; payroll voucher; type correspondence, course work and manuscripts. Other duties as assigned.

Requirements: Associate's in business or equivalent. 2 years related Cornell experience. Able to use a computer IBM-XT compatible, using Wordperfect. Excellent interpersonal and organizational skills. Able to work independently and with accuracy. Medium typing.

Sales Assistant, GR20 (C9409)

Campus Store-Endowed

Minimum Biweekly Salary: \$558.78

Provide technical information to customers in the area of photography and general customer service

in the Campus Living Shop. Assist the Assistant Director of General Merchandise with buying technical photography products; act as liaison with vendors and provide functional supervision to student staff. Monday-Friday, 8:30-5, some nights and weekends.

Requirements: Associate's or equivalent combination of experience. Strong interpersonal, communication and organizational skills. 2-3 years retail experience. Technical knowledge of photography. Previous buying experience including supervision. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

Research Aide, GR21 (C9411)

CISER-Endowed

Minimum Biweekly Salary: \$582.29

Coordinate operations for survey research projects, particularly mail surveys. Oversee and coordinate ordering, printing, and packing of all mail survey materials; scheduling, management, and accounting of the mail operations components of all survey research projects. Some nights and weekends.

Requirements: Associate's or equivalent in office management, business management. 2 years related experience. Demonstrated ability and experience in project management, personnel supervision, and knowledge or willingness to learn microcomputer and mainframe applications in project management and survey research. Experience and demonstrated skills in layout. Excellent ability to organize; attention to detail. Good interpersonal skills to promote staff morale and build teamwork. Internal applicants only. Submit employee transfer, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

Accounts Coordinator, GR21 (C9412)

Administrative Services-Endowed

Minimum Biweekly Salary: \$582.29

Provide administrative and accounting support for maintenance and service operations and administrative services (directors, business managers, plant account and section managers, and support staff). **Requirements:** Associate's or equivalent in accounting or business. 3 years experience in budgeting, forecasting and cost accounting techniques. Bachelor's preferred. Experience using Macintosh PC's and calculators. Cornell accounting and mainframe computer systems experience desirable.

Office Professionals Part-Time

Office Assistant, GR16 (C9016)

Education-Statutory

Minimum Biweekly Salary: \$477.46

Assist coordinator in obtaining, assembling, and distributing materials for New York Agriculture in the Classroom. 30 hours per week.

Requirements: High School diploma or equivalent. Valid NYS driver's license. Some related office experience preferred. Minimum level competence on Macintosh Computer. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

Accounts Assistant, GR17 (C9508)

Plant Breeding and Biometry-Statutory

Minimum full-time equivalent: \$495.36

Assist Administrative Aide with duties of business operations in academic department. Type purchase orders; make deposits; order supplies; accounts receivable billings; pick up and deliver packages; process phone, fleet and stores bills; photocopy; fax; file; run errands. 20 hours per week. Hours negotiable.

Requirements: High School diploma or equivalent. Office/accounting experience helpful. Light typing. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

Office Assistant, GR18 (C9510)

Mail Services/Materials Management and Campus Services-Endowed

Minimum full-time equivalent: \$513.94

Operate the mail and communication systems in the Day Hall Mail Room. Advise customers of cost efficient alternatives when utilizing mail or express mail services; serve as relief clerk for: Announcements, Barnes Hall Post Office and Messenger Mail, as required. Monday-Friday, 20-35 hours per week.

Requirements: High School diploma or equivalent. Some college coursework preferred. 1 year related experience. Customer service orientation and excellent communication skills required. Knowledge of the rules and regulations of the U.S. Postal Service, United Parcel Service and other express mail services is preferred. Basic personal computer skills and familiarity with the Cornell Campus is helpful. Able to operate mail and communication equipment (electronic scale, postage meter, computer, facsimile machine) required. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

Information Assistant, GR18 (C9404)

Engineering Library/CUL-Endowed

Minimum full-time equivalent: \$513.94

Under the general supervision of the Reference Librarian, responsible for assisting library users with information, reference and instruction, also involved with interlibrary loan verification and as-

sisting with Document Photocopy Service. 20 hours per week.

Requirements: Associate's or equivalent experience. Experience with the research process and microcomputers. Able to work under pressure. Strong interpersonal, organizational and communication skills. Experience in an academic library desirable.

Office Assistant, GR18 (C9402)

Avian and Aquatic Animal Medicine-Statutory

Minimum full-time equivalent: \$513.94

Provide support to administrative aide. Answer telephone; act as receptionist; handle departmental purchasing and departmental travel; maintain files; mail and copying; prepare C.U. Stores billing for payment; type correspondence as needed. Other duties as assigned. Monday-Friday; 20-24 hours per week.

Requirements: High School diploma or equivalent. Business or secretarial school desired. 1 year secretarial and office experience. Excellent interpersonal, organizational and phone skills necessary. Some accounting (knowledge of statutory accounting procedures helpful). Medium typing. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

Senior Night Supervisor, GR20 (C9415)

School of Hotel Administration-Endowed

Minimum full-time equivalent: \$558.78

Responsible for library operation during evening and Friday (day) hours; daily activities include circulation and reserve operations; supervise collection maintenance, provision of current awareness services; maintain corporate information files, and menu collection. Monday and Thursday, 4 p.m.-12 midnight; Friday, 10 a.m.-5 p.m.

Requirements: Associate's or equivalent preferred. Strong interpersonal and communication skills. Previous library and/or supervisory experience. Able to work independently. Knowledge of computers required. Light typing.

Office Professionals Temporary

In addition to posted positions, temporary opportunities occur in many occupational areas, including secretarial, word processing, accounting, and office administration. All individuals are encouraged to apply; experienced applicants with a typing speed of 45-60 wpm, knowledge of IBM-PC Word Perfect software and Macintosh word processing are in particular demand. Call Karen Raponi at (607) 255-2192 or 255-7422 for more information.

Casual Office Assistant (S9502)

Master of Engineering

6-10 hours, preferably afternoons. Utilizing Macintosh skills to enter data on the database. Open mail, file, prepare mailings. Confidentiality a must. Contact Karen Raponi, Staffing Services, East Hill Plaza, at 255-2192.

Temporary Office Assistant (S9403)

Johnson Museum-Endowed

Hourly Rate: \$6.12

Act as receptionist. Provide information to visitors; sell cards, catalogs, and posters; answer telephone switchboard. Provide security for museum lobby. Casual appointment, approximately 12-13 hours per week. Every other weekend, plus special events. Saturday and Sunday, 9:45 a.m.-5:15 p.m. **Requirements:** High School diploma or equivalent. Previous receptionist experience necessary. Interest and involvement in art or related areas preferred, as well as familiarity with the Ithaca community. Send cover letter and resume to Karen Raponi, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

General Service

Submit a signed employment application and resume. Requests for referral and/or cover letters are not accepted from external candidates unless specified in the ad. Qualified applicants will be invited for a preliminary interview at our East Hill Plaza office.

Custodian, SO02 (G9501, G9502)

Buildings Care-Statutory

Hiring Rate: \$6.00

Provide general custodial care of buildings and grounds in immediate vicinity of assigned area. Monday-Thursday, 6 a.m.-2:30 p.m.; Friday 6 a.m.-1:30 p.m.

Requirements: Basic reading and writing skills. Able to operate a variety of heavy power equipment, lift 50 pounds and climb an 8 foot ladder.

Custodian, SO02 (G9503, G9504, G9505)

Buildings Care-Endowed

Hiring Rate: \$6.00

Provide general custodial care of buildings and grounds in immediate vicinity of assigned area. Monday-Thursday, 6 a.m.-2:30 p.m.; Friday 6 a.m.-1:30 p.m.

Requirements: Basic reading and writing skills. Able to operate a variety of heavy power equipment, lift 50 pounds and climb an 8 foot ladder.

Head Waitperson, SO02 (G9205)

Statler Hotel-Endowed

Hiring Rate: \$6.00

Jobs

Continued from page 3

Under supervision, serve meals to guests in the fine dining room according to established rules of etiquette and service. Help set up and clean dining room. Some nights and weekends.
Requirements: High School diploma or equivalent. Able to read and write English. Minimum 1 year wait experience and ability to work well with the public.

Bell Captain, SO03 (G9403)
Statler Hotel-Endowed
Hiring Rate: \$6.28
Provide pickup and delivery service; offer information to help guests; work closely with the sales department and front desk. Some nights and weekends.
Requirements: High School diploma or equivalent. Basic reading and writing skills. Valid driver's license with no infractions. Able to work easily with public.

Bus Driver, SO06 (G9506)
CU Transit-Endowed
Hiring Rate: \$7.20
Drive bus on campus, TOMTRAN routes and charter trips. Check vehicle for proper operating condition; provide information and directions. Shift subject to change.
Requirements: High School diploma or equivalent. NYS Class 2 driver's license required. Pre-employment physical and other Department of Motor Vehicles requirements. 3-6 months current bus driving experience. Good communication (oral) skills.

Baker, SO06 (G9402)
Dining-Endowed
Hiring Rate: \$7.20
Prepare full variety of baked goods including rolls, breads, cakes, cookies and pastries. Decorate baked goods. Shift subject to change.
Requirements: High School diploma or equivalent. 1 year related experience. Working knowledge of choppers, dough sheeters, ovens, mixers, proffing cabinet and various hand tools. Good interpersonal, communication and organizational skills.

Assistant Cook, SO06 (G5816, G9301)
Dining-Endowed
Hiring Rate: \$7.20
Under general supervision, prepare and present a full variety of foods, as assigned, through own efforts and through supervision of staff. Shift subject to change.
Requirements: High School diploma or equivalent. 1-2 years experience in food preparation; knowledge of food cooking processes (grilling, frying, roasting, steaming) in an institutional environment preferred. Skilled in presenting and garnishing food. Working knowledge of use and maintenance of charbroilers, steam jacket kettles, pressure steamers, ovens, slicers, mixers, choppers and various hand tools. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

Cook, SO08 (G8905, G5820)
Dining-Endowed
Hiring Rate: \$7.91
Prepare and present a full variety of foods including soups, sauces, casseroles, meats and vegetables through own efforts and through supervision of staff. Shift subject to change.
Requirements: High School diploma or equivalent. 3-5 years experience in preparing full range of entrees; knowledge of food cooking processes (grilling, frying, roasting, steaming) in an institutional environment preferred. Working knowledge of use and maintenance of charbroilers, steam jacket kettles, pressure steamers, ovens, slicers, mixers, choppers and various hand tools. Supervisory skills desirable. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza, Ithaca, NY 14850.

General Service Part-time

Dish Machine Operator, SO02 (G9302)
Dining-Endowed
Hiring Rate: \$6.00
Wash dishes, utensils, pots and pans. Stock assigned areas. Shift subject to change. 30 hours per week.
Requirements: High School diploma or equivalent. Able to learn proper use of dishwashing equipment and cleaning agents. Able to lift 35 pounds.

Material Handler, SO04 (G9507)
School of Hotel Administration-Endowed
Hiring Rate: \$6.58
Pack books, reprints, and magazines to be mailed through the U.S. Post Office and UPS; stock shelves; record inventory; open mail; file; run errands. Must be able to lift 20-80 boxes. 20 hours per week. 8 a.m.-12 noon.
Requirements: High School diploma or equivalent. Mailroom or shipping knowledge desired.

Good organizational skills. Able to work independently. Valid driver's license. Able to drive standard shift or learn.

General Service Temporary

In addition to posted positions, temporary opportunities frequently occur in custodial, food service, dish machine operation, material handling and other service areas. All individuals are encouraged to apply. Call Karen Raponi at (607) 255-2192 or 255-7422 for more information.

Custodian
Building Care-Endowed/Statutory
Temporary Rate: \$5.00
Continuous recruitment will be done in the department of Building Care for temporary custodians. Providing general custodial care of buildings and grounds in immediate vicinity of assigned area. Monday-Thursday 6:00am-2:30pm, Friday 6:00am-1:30pm. Periodically 2nd and 3rd shift hours are available.
Requirements: Basic reading and writing skills. Able to operate a variety of heavy power equipment, lift 50 pounds and climb a 6 foot ladder. Contact Karen Raponi, Staffing Services, East Hill Plaza, 255-2192 for an interview.

Academic

Post Doctoral Position
College of Veterinary Medicine
To investigate cellular interactions involved in intestinal immunity.
Requirements: PhD with experience in either cellular or intestinal immunity required. Send curriculum vitae and names of three references to Dr. Robin G. Bell, James A. Baker Institute for Animal Health, New York State College of Veterinary Medicine, Cornell University, Ithaca, NY 14853.

Cornell Employment News

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