

Cornell CHRONICLE

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Stricter
enforcement
of traffic rules

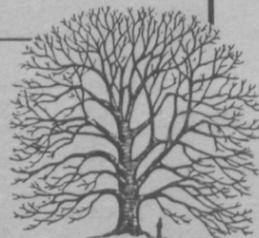


3

Endowed chairs
in engineering



Cornell
Plantations
supplement



Cheers, protests greet Kitty Dukakis on 49-minute visit

The Women's Caucus in the School of Industrial and Labor Relations brought Kitty Dukakis, wife of Democratic presidential candidate Michael Dukakis, to the campus for 49 minutes on Sept. 9 to meet about 500 cheering students. The visit also stirred a sidewalk protest by student supporters of the Republican candidate, George Bush.

Mrs. Dukakis outlined her views on women's issues during a six-minute address and 12 minutes of questions and answers before about 120 students who occupied every seat in an Ives Hall classroom. From the classroom, she was escorted by Secret Service agents and campus officers to a lecture auditorium where about 400 students had watched and listened to her address on closed-circuit TV.

They were chanting "We Want Kitty" and "We Want Duke" and waving signs for her husband when she entered. She spoke briefly to the overflow group and shook hands with students who were able to crowd around her.

Campaigning during a one-day tour by private jet through southern New York State, the governor's wife arrived at Ives Hall at 1:10 p.m., about one hour behind schedule because her plane had been delayed at La Guardia Airport in New York City earlier in the day.

Dukakis said that child care, equal pay, flexible working hours and parental leave are the real issues facing women today. "You and I know the agony of leaving a young child

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Jill Peltzman

Kitty Dukakis is greeted by Dean David Lipsky of ILR. The ILR Women's Caucus invited the wife of the Democratic candidate to speak here last Friday.

Freshman class most selective, trustees told

Cornell achieved all-time records this year in attracting high quality students, the executive committee of the board of trustees was told at their meeting on Sept. 8 in New York City.

During the session, which was held to review the university's status at the start of the new academic year, the executive committee also heard an assessment of budget constraints facing Cornell's four state-supported colleges, supported plans for financing the new Solid Waste Combustion Institute and for adding a second supercomputer, and heard a report on the decision not to reinstate a fraternity.

President Frank H.T. Rhodes reported that freshman applications for the 1988-89 academic year hit an all-time high of 21,765, up 3.3 percent over last year. He said this year's freshman class is the most selective ever with 27.6 percent of those who applied admitted as compared to 29.4 percent last year.

The president said that 80 percent of the members of the Class of 1992 ranked in the top 10 percent of their high school graduating classes. Some 45 percent of the entering class is women, compared to 42 percent last year. Minority enrollment stayed about the same as last year, at a time when the trend is downward nationwide, Rhodes noted.

Enrollment of students outside New York State hit 55

Continued on page 7

British scientist, 2 Americans named professors-at-large

A British cancer researcher, a Harvard literary critic, and a Stanford physicist have been elected Andrew D. White Professors-at-Large for six-year terms.

The new professors-at-large, who are to visit Cornell periodically to meet with classes, students and faculty and to give public lectures, are:

- Peter M. Biggs, who directs the world's foremost poultry research institute in Houghton, England, and three other agricultural and food research centers. A teacher at the University of London and editor of Avian Pathology, he has received numerous honors for his work on tumor-producing viruses, including the first practical effective cancer vaccine for any species.
- Barbara Ellen Johnson, a professor of

French and comparative literature at Harvard University who has published broadly in the areas of literary criticism and symbolist poetry, the relations between poetry and politics, and black women's writing. She has translated the work of Jacques Derrida, originator of the deconstruction movement, which focuses on the conflicting meanings found within literary and philosophic writing, with the intent of the writer viewed as only one factor to be considered.

- Wolfgang K.H. Panofsky, an emeritus professor of physics at Stanford University, director emeritus of the Stanford Linear Accelerator Center and current head of the Committee on International Security and Arms Control of the National Academy of Sciences. A former member of the Presi-

dent's Science Advisory Committee, he was also senior consultant to the U.S. government during the negotiations for both strategic arms limitation treaties and is regarded as a ranking expert on Soviet nuclear arms thinking.

The three scholars were elected by the executive committee of the board of trustees on Sept. 8. The program, named for Cornell's first president, was instituted in 1965 in the spirit of a non-resident professor program White initiated to attract the world's eminent scholars and leaders in public affairs, literature, the arts and sciences when the university was founded in 1865.

These renowned figures in their fields, of which there are to be no more than 20 in the current program at any one time, supple-

ment the activities of the permanent faculty and keep the campus in direct touch with the world's dialogue of thought.

Through the years, White professors-at-large have included Italian film director Michelangelo Antonioni, British educator Sir Eric Ashby, Israeli political scientist Shlomo Avineri, Mexican architect Felix Candela, American composer Elliott Carter Jr., German Nobel laureate in chemistry Manfred Eigen, Kenyan-born anthropologist Louis F.S. Leakey, Australian geochemist A.E. Ringwood, French Classics scholar Jacqueline de Romilly, Indian anthropologist M.C. Srinivas, American novelist Eudora Welty and Finnish philosopher Georg Henrik von Wright.

—Irv Chapman

Information on AIDS to be distributed widely

A booklet, "Information About AIDS for the Cornell Community," is scheduled to be distributed by university health educators next week to every student, faculty and staff member at the Ithaca campus.

The Cornell AIDS Advisory Committee has produced more than 46,000 copies of the 36-page booklet, which includes up-to-date information on the causes and effects of acquired immune deficiency syndrome and AIDS-related complex, as well as detailed guidelines for prevention and lists of on- and off-campus resources.

"We recognize that advising anything but abstaining from sex [to prevent AIDS] may offend some members of the campus community," said Dr. Leslie Elkind, the director of University Health Services and chairman of the AIDS Advisory Committee established last year by Cornell President

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Rhodes urges Congress to enhance economic opportunities for minorities

President Frank H.T. Rhodes asked Congress on Sept. 13 to "stimulate economic growth and restore national solvency" in order to enhance the economic and social condition of minority groups.

"Our democracy cannot succeed if one-third of our people — characterized by the color of their skin and their ethnic identity — are essentially cut off from participation in our national life," Rhodes said in his remarks prepared for delivery before the House Committee on Education and Labor.

Rhodes testified before the committee as the chairman of a 37-member national commission formed by the American Council on Education and by the Education Commission of the States to examine the advancement of minorities. That group, with former Presidents Gerald R. Ford and Jimmy Carter as honorary co-chairmen, reported in May that America is sliding backward from earlier civil-rights progress.

Saying that the report has generated "an outpouring of public interest from around the country" since its release, Rhodes added: "We are confronted with a unique opportunity. This nation's commitment to equality of opportunity

for all Americans once more is coming to the fore."

Citing his panel's study, titled "One-Third of a Nation," Rhodes said that between 1985 and the year 2000, minority workers will make up one-third of the net additions to the labor force, and by the year 2000, one-third of school-age children will be minorities.

But the percentage of black and Hispanic high school graduates enrolling in college peaked in 1975 and has declined during a period when a growing percentage of minority students were graduating from high school, he said. While median family income for whites rose steadily between 1975 and 1985, for blacks and Hispanics, family income decreased during that decade, he added. More than 40 percent of black and Hispanic children were living in poverty in 1985.

"It is this portion of the population that continues to be afflicted disproportionately by the ills of poverty and deprivation," Rhodes said. "Bringing these citizens into the mainstream of American life is a matter of basic social justice. It also is a matter of national survival."

Continued on page 7

Notables

Structural engineering Professor **Thomas D. O'Rourke**, has been awarded the 1988 Walter L. Huber Civil Engineering Research Prize of the American Society of Civil Engineers. The award recognizes people of "early accomplishment who can be expected to continue fruitful careers in research." O'Rourke specializes in soil-structure interaction, underground structures and geotechnical instrumentation.

The book, "Political Crisis/Fiscal Crisis: The Collapse and Revival of New York City" by government Professor **Martin Shefter**, was honored at this month's American Political Science Association convention as the best book on urban policy published in the last five years.

The book, published by Basic Books in 1985, argues that urban fiscal crises such as the one that beset New York City in 1975 are caused by a struggle for political power in American cities.

This is the second consecutive year that books by Cornell government professors have been honored at the APSA convention. Last year, awards were presented for Theodore J. Lowi's "The Personal President" and for Peter J. Katzenstein's "Small States in World Markets."

Nimat Hafez Barazangi, a native Syrian, received the Department of Education's 1988 Glock Award for Research in Human Learning for her Ph.D. dissertation titled "Perceptions of the Islamic Belief System: The Muslims of North America." The award, which includes \$350 in cash, was established by the Department of Education and the New York State College of Agriculture and Life Sciences to honor the contributions of Professor Emeritus Marvin D. Glock to teaching and to research in human learning.

New lectures set on public policy and nutrition

British economist **Michael Lipton** will inaugurate a lecture series on the complexities of government policy and nutrition by discussing how government policies affect poverty and undernutrition. He will lecture on Sept. 20 at 2 p.m. in Room 166 of Martha Van Rensselaer Hall.

The new lecture series was established by the Division of Nutritional Sciences and is being supported by a grant from the Pew Memorial Trust of Philadelphia. The *Pew-Cornell Lecture Series on Food and Nutrition Policy* will present five other lectures through Nov. 15.

"With this lecture series, we hope to generate and exchange knowledge about how government policies affect the well-being of the poor, including their food security and nutritional status," said Per Pinstrip-Andersen, a professor of food economics in the

Cornell to tighten control of cars' access to campus

The university will tighten control over vehicles entering campus beginning Sept. 19 as part of a new safety and enforcement campaign to ease congestion involving vehicles, pedestrians and bicyclists.

William E. Wendt, Cornell's director of transportation services, said Cornell has been trying for years to maintain a central campus that primarily serves the needs of pedestrians rather than motor vehicles.

"Central campus is confined between two gorges, providing a limited area for more than 25,000 pedestrians, especially during the academic year. When you combine the pedestrians with the hundreds of bicyclists and the thousands of motor vehicles permitted on campus and the construction projects under way, it's a situation fraught with safety concerns, particularly at times when classes are changing," he said.

William E. McDaniel, director of public safety, said there has been an increase of more than 50 percent in motor vehicle accidents in each of the past two academic years from 1985-86, when 156 accidents were reported on campus. And, there has been an increase of 100 percent in personal injuries — from 15 in 1985-86 to 30 in 1987-88.

"As a result, the university is taking a more aggressive stand on promoting safe driving practices on campus and controlling traffic entering campus," Wendt said, stressing that "this includes cyclists, who are subject to the same laws and regulations as drivers of motor vehicles."

Only vehicles with valid permits will be allowed to enter the central campus from 7:30 a.m. to 5 p.m. Monday through Friday, according to Wendt. The policy applies to employees, students and all others whose vehicles do not have the appropriate university permit. While this has been the rule for several years, Wendt said drivers coming

onto the campus will be stopped at the four traffic and information booths that control access. Vehicles with a proper permit will be allowed to enter the campus; others will be given information about where to park legally or about alternate routes to their destination.

Traffic booths are on Tower Road near Wing Drive, on East Avenue at the intersection with University Avenue, and on Campus Road near the parking garage and in front of Carpenter Hall.

For many years, only drivers needing information were stopping at the booths, according to the transportation services director. "Our assumption was that drivers would obey the sign on the booths stating that access to campus is restricted to vehicles with valid permits," Wendt said.

He noted that there are passenger drop-off areas within three blocks of any central campus location and that the drop-off areas are accessible without passing by a booth. In addition, 25 metered spaces are available in the parking garage; another 82 are convenient to other traffic booths, including some on Central Avenue, North Central Avenue, Helen Newman Drive, the Robert Purcell Union parking lot off Jessup Road, near Stocking Hall and at the College of Veterinary Medicine. There also are 50 paid parking spots on the west side of Willard Straight Hall. Visitors to campus can purchase daily parking permits at the booths and at the Traffic Bureau at 116 Maple Ave. Permits allow a vehicle to enter campus, but do not guarantee a parking space. Requests for special access needs should be directed to the Traffic Bureau.

In addition, Wendt pointed out that public transportation routes sponsored by the City of Ithaca, Tompkins County and Cornell University operate on campus.

Division of Nutritional Sciences.

Pinstrip-Andersen also is director of the newly created Cornell Food and Nutrition Policy Program.

Malden C. Nesheim, vice president for budgeting and planning and former director of the Division of Nutritional Sciences, will offer introductory remarks about the series.

The title of the lecture by Lipton, who is from the University of Sussex and is director of the Food Consumption and Nutrition Policy Program at the International Food Policy Research Institute in Washington, D.C., will be "Attacking Undernutrition and Poverty: Some Issues of Adaptation and Sustainability."

Other lectures also will be presented in 166 Martha Van Rensselaer Hall at 2 p.m. on selected Tuesdays as follows:

- Sept. 27 — Erik Thorbecke, the H. Ed-

ward Babcock Professor of Economics and Food Economics at Cornell, "The International Monetary System and Nutrition."

- Oct. 4 — Jere Behrman, professor of economics, University of Pennsylvania, "Nutrition and Incomes: Tightly Wedded or Loosely Meshed."

- Oct. 18 — Daniel Sisler, professor of agricultural economics, Cornell, "Agricultural Market Liberalization and Its Implications for Nutrition in Malawi."

- Nov. 1 — Laura Sims, dean of the College of Human Ecology, University of Maryland, "A Review of Nutrition-Related Policies and Programs in the United States during the Reagan Administration and Their Impact."

- Nov. 15 — Peter Timmer, economist and professor at large at Harvard, "Food Price Stability and Welfare of the Poor."

Obituary

Isaac Rabinowitz, a biblical scholar and authority on the Dead Sea Scrolls, died on Sept. 11 at Tompkins Community Hospital after a brief illness. He was 79.

Among his major scholarly contributions was the first translation and critical evaluation in modern language of a 15th century Hebrew treatise on the art of classical rhetoric and its use in interpreting the Hebrew Bible.

A 25-year labor, Rabinowitz's annotated translation of "The Book of the Honeycomb's Flow," by the Italian Renaissance scholar Judah Messer Leon, was published in 1983 by the Cornell University Press.

Rabinowitz joined the Cornell faculty in 1957 and was named Professor of Biblical and Hebrew Studies Emeritus upon his retirement in 1975. However, he continued to teach for several more years and pursued his scholarly endeavors until he was stricken in his campus office on Sept. 6 with the heart complications that led to his death.

He recently completed a book, not yet published, on ancient Israel's beliefs about the nature and function of literature. He maintained that a key to understanding the Bible lies in the realization that the ancient Israelites looked on words as concrete things and not as mere symbols.

He was the author of more than 40 ar-

ticles, including works on the Dead Sea Scrolls, Semitic epigraphy, and medieval and Arabic texts, as well as the Bible and other literature of ancient Israel.

Rabinowitz was named chairman of the Department of Semitic Languages and Literatures, now the Department of Near Eastern Studies, when it was established in 1965. He held the post until 1970.

He came to Cornell from Wayne State University in Detroit, Mich., where he held the endowed La Med Professorship and was director of the Program of Hebrew Studies.

Rabinowitz was executive director of the East New York Young Men's and Young Women's Hebrew Associations in Brooklyn from 1946 to 1955. Earlier in his career, he had directed B'nai B'rith Hillel Foundations at the University of Michigan, University of Pennsylvania and Brooklyn College.

He was born in Brooklyn, graduated from the University of California at Berkeley in 1929 and received his doctorate at Yale University in 1932.

Survivors include two daughters, **Susanah Rubenstein** of Brooklyn and **Abigail Geman** of Amherst, Mass.; a son, **Joel Rabinowitz** of Ithaca; seven grandchildren; and a brother and a sister. Services are scheduled for Sept. 15 at 11 a.m. at the Herson Funeral Home in Ithaca.

Briefs

■ **Guide for disabled:** "The Cornell Campus Guide for the Disabled," published by the Cornell Office of Publications Services, received the top award for brochures at the Association on Handicapped Student Service Programs in Postsecondary Education Conference this summer in New Orleans. This is the first year that the association has sponsored a competition for publications.

■ **Catalogue deadline:** Oct. 3 is the deadline for faculty to submit course proposals for the 1989 Summer Session catalogue to the Summer Session Office in Room B12 of Ives Hall. The 1989 Summer Session theme is "Revolution." Of particular interest are courses that were wait-listed or closed out during the fall or spring. Faculty should contact Mary Gloster at 255-4987.

■ **Home sprinklers:** Fire sprinklers for homes will be demonstrated to the public in a trailer to be parked near Barton Hall from 1:30 to 3:30 p.m. during Employee Day, Sept. 17. The demonstration is sponsored by the New York State Association of Fire Chiefs in conjunction with the International Association of Fire Chiefs' Operation Life Safety Foundation. For more information, call Life Safety Services at 255-3741.

■ **Marjorie Blanchard to speak on campus:** Marjorie Blanchard, a 1962 graduate and president of the San Diego-based management consultant firm Blanchard Training and Development Inc., will lecture on "Managing and Enjoying: The Entrepreneurial Spirit" on Sept. 19 at 4 p.m. in Room 45 of Warren Hall. She will be delivering the fifth annual lecture of the Personal Enterprise and Small Business Management Program in the Department of Agricultural Economics.

Marjorie Blanchard founded Blanchard Training and Development Inc., in 1979 with her husband, Kenneth Blanchard, '61, co-author with Spencer Johnson of the best-selling book "The One Minute Manager." She is a co-author of two subsequent books in the One Minute Management series, "The One Minute Manager Gets Fit" (1986) and "Working Well: Managing for Health and High Performance" (1985). She specializes in communication, leadership, health promotion, life planning and team building.

Blanchard also will speak to a class in the ILR School and a class in the Hotel School during her visit to campus.

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

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

Classicist to give A.D. White lecture

British classicist **Sir Kenneth James Dover** will deliver two public lectures during his visit to Cornell as an Andrew D. White Professor-at-Large. This will be his last visit as a professor-at-large.

Dover will lecture on "Anecdote, Scandal and Gossip in Greek History" at 4:30 p.m. on Sept. 19 in Room 156 of Goldwin Smith Hall. He will lecture on "Brekekekex Koax Koax: Editing Aristophanes' Frogs," at 4:30 p.m. on Sept. 28 in Room 156 of Goldwin Smith Hall. *Brekekekex koax koax* is an imitation of the sound made by frogs that is used in Aristophanes' play, "Frogs."

Dover has taught at several colleges and universities, including Harvard University and the University of California, Berkeley. He served as president of the British Academy and is a Foreign Member of the American Academy of Arts and Sciences and of the Royal Netherlands Academy of Arts and Sciences.

An honorary fellow at Oxford University, Dover is the sole author of one dozen books, a co-author of three others books and the author of numerous book chapters and articles.

His 1978 book, "Greek Homosexuality," received a great deal of attention from outside the classics community.

He will be at Cornell Sept. 19 to Oct. 2.
—Mark Eyerly

Cornell Chronicle

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

First volcanoes of ice in solar system confirmed

New analysis of gigantic snake-like flows of ice "lava" first discovered in images taken by the Voyager 2 spacecraft have confirmed the existence of ice volcanoes on two of the moons of Uranus.

Cornell astronomers, who performed computer processing of the images of the huge, smooth, pillowlike structures on the moons Ariel and Miranda, reported their findings in the Sept. 9 issue of *Science*. They are graduate student David Jankowski and astronomy Assistant Professor Steven Squyres.

The findings emphasize that the tiny moons of the outer system are not simple chunks of ice and rock, but possess their own complex structure and geological processes, the scientists said.

"These results clearly show that both these moons have very complicated processes going on that we are far from understanding," Jankowski said. According to Jankowski, studies of the shape of the flows indicate that in order to flow at 200 degrees below zero Centigrade on the frigid moons, the lava could not be pure water ice. It almost certainly includes such ingredients as ammonia, methane or carbon monoxide, which gives good evidence for these volatile substances in the outer planets.

Jankowski's and Squyres' analysis of the shape of the flows indicates that when the lava was extruded, it might have been as viscous as the ice found in glaciers on Earth. However, the material also might have been less viscous, they said.

The lava flows discovered on the two moons are about the size of small mountains, ranging up to a kilometer high and 20 to 50 kilometers across. They are, for the most part, nestled within canyons that scar the surfaces of the moons. These canyons range up to seven kilometers deep, far larger

than the Grand Canyon, which is about 1.5 kilometers deep.

The scientists theorize that the lava was extruded along cracks in the bottom of the canyon, solidifying into the long snakelike pillows along the cracks.

They emphasized that the flows are not recent; the extent of cratering on them indicates they are billions of years old. There is no evidence of active volcanism on the two moons.

After Voyager 2 first obtained images of the moons in January 1986, project scientists observed features that suggested ice volcanism, but the Cornell studies are the first to establish the characteristic pillowlike shapes that confirm the flows.

The two Cornell astronomers theorize that the flows occurred when some heat source melted subterranean portions of the ice-rock conglomeration that makes up the moons. Upon melting, the rocky fraction of the material migrated downward and the buoyant ice rose to the surface, extruding through cracks in the canyon floors.

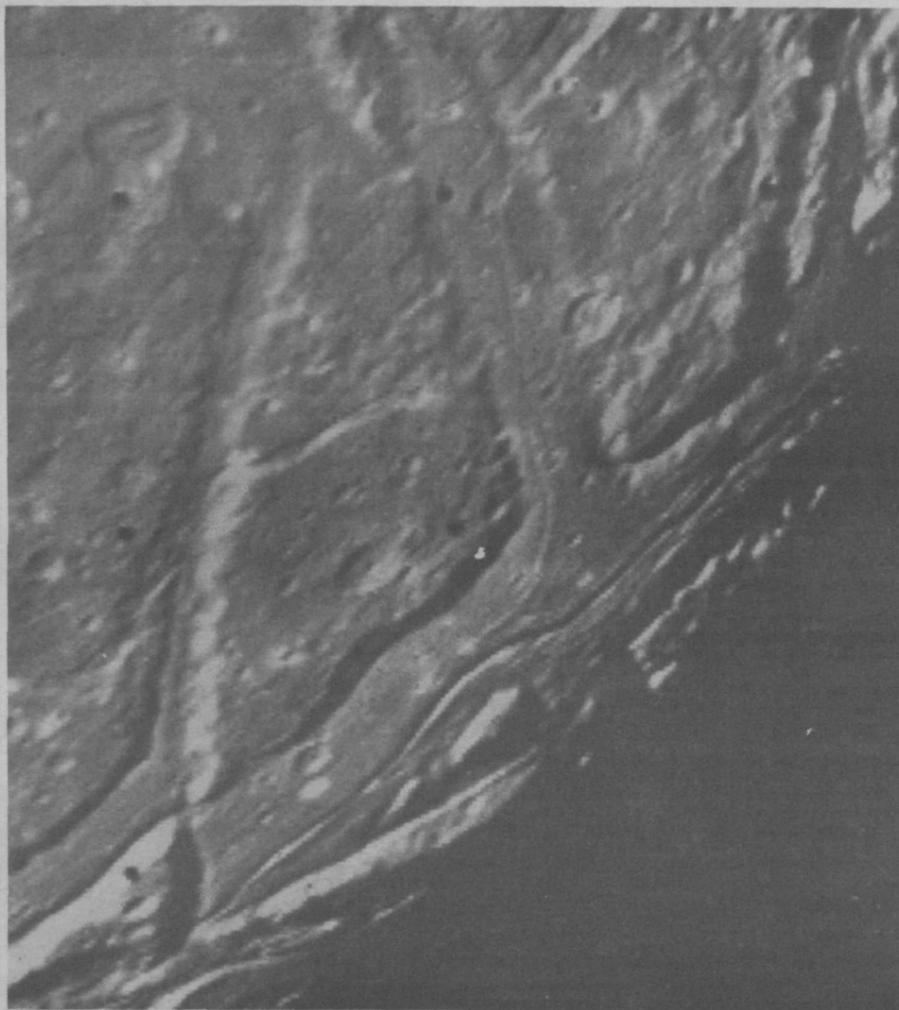
The source of that ancient heat, however, remains a mystery, Jankowski and Squyres said and added that it may have been generated by the squeezing of the moons by tidal forces as they circled Uranus, or by the heat generated by the moons' formation.

In their studies, the scientists used a technique called photogrammetry, in which they measured the variations in brightness across the features to deduce their topography.

Ariel, with a diameter of about 1,200 kilometers (746 miles), is about the size of Texas. Miranda, at 500 kilometers (311 miles), is about the size of Utah.

The Cornell work was sponsored by NASA.

—Dennis Meredith



ICE VOLCANOES — Voyager 2 image of the Uranian moon Ariel shows the deep canyons that hold the gigantic ice lava flows analyzed by Cornell astronomers.

5 welcomed to endowed chairs in Engineering; 3 are new posts

The College of Engineering officially welcomed five endowed professors on Sept. 9 following their election by the board of trustees the day before. Three of the five chairs are newly endowed. The appointments are effective Oct. 1.

• Edward J. Kramer has been named the first Samuel B. Eckert Professor of Materials Science and Engineering. Kramer has been on the faculty since 1967. He was the first to demonstrate experimentally the molecular-level mechanisms by which polymers fracture, leading to new methods for improving their toughness and strength. The work made him a co-winner of the High Polymer Physics Prize of the American Physical Society.

Eckert, who received a bachelor's degree in mechanical engineering in 1908, was executive vice president of Sun Oil Co. His legacy will make possible up to three endowed engineering professorships.

• Richard N. White was elected the first James A. Friend Family Professor of Engineering. White, a faculty member since 1961, last year became associate dean for undergraduate programs in the College of Engineering. His research into the properties of structural concrete and steel has included work on prestressed concrete containment vessels for nuclear reactors. He is a recipient of the Collingwood Prize of the American Society for Engineering Education.

Friend, B.M.E. '16, was chairman of Nordberg Manufacturing Co., later renamed Rexnord Inc. His widow pledged the en-

dowment.

• John Silcox will be the first David E. Burr Professor of Engineering. A faculty member since 1961, he has earned an international reputation as a pioneer and an authority in analytical electron microscopy and was a principal developer of a technique known as energy loss spectroscopy.

Burr, B.M.E. '03, in his business career was co-founder with his brother of the Burr Foundry and Machine Co. in Keene, N.H.

• Michael J. Todd will become the Leon C. Welch Professor of Engineering. Todd, the second Welch professor, has been on the faculty since 1973 and two years ago was appointed director of the Center for Applied Mathematics. In July, he received the George B. Dantzig Prize, the foremost prize for research in mathematical programming. His work has found application in engineering and in economics, including the effects of tariffs, quotas and export subsidies on trade balances and the impact on revenues of changes in the tax code.

Welch, B.M.E. '06, was vice president of Standard Oil Co. of Indiana.

• Toby Berger was elected the J. Preston Levis Professor of Engineering. Berger came to the faculty in 1968 and is regarded as one of the world's premier authorities on information and communication theory. He is the editor-in-chief of *Transactions on Information Theory*, published by the Institute of Electrical and Electronics Engineers.

Levis, B.M.E. '06, was president and chairman of the Owens-Illinois glass firm.

—Irv Chapman



Charles Harrington

Mary Ann Hong, Arts '90, and Daniel Read, Arts '92, were among students, faculty and staff who picked up some 1,500 Apple Computers from Lynah Rink Sept. 9 and 10. They had placed their orders throughout the summer with the Microcomputer and Office Systems division of Cornell Computer Services. Those who ordered IBM computers will be able to pick them up at Willard Straight Hall from 10 a.m. to 3 p.m. on Sept. 19 and 20. Experts also will be on hand to demonstrate IBM computers and to take orders at special prices available to Cornell students, faculty and staff.

'Connecting' calendar in the works

The Office of the Vice President for Research and Advanced Studies, on behalf of the Technology Transfer Committee of the University Council, is preparing the 1989 edition of "Connecting with Cornell," the technology-transfer publication.

A calendar of Cornell events with an annual distribution of 13,000 copies, the publication is designed to acquaint a corporate audience with opportunities for participation in Cornell's many conferences, symposia, workshops, distin-

guished lecture series, study tours and other scheduled events. Programs in the sciences and engineering will be featured as well as those of general interest in the arts, social sciences and humanities.

Deans, directors, department heads and others are invited to submit information on pertinent events planned for 1989 to Anna Moratz, 255-8607, 312 Day Hall.

The deadline for events submission has been extended to Oct. 21.

CALENDAR

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

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

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

DANCE

Cornell Folkdancers

The Cornell community and general public, including beginners, are welcome to join in folkdancing. Admission is free, unless stated. International folkdancing, beginners dances, Sept. 18, 7:30-9:30 p.m., Memorial Room, Willard Straight Hall. Telephone: 257-3156.

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.

"Art Faculty Exhibition," featuring works by current and emeritus professors in the art department, including Roberto Bertoia, Stanley J. Bowman, Zevi Blum, Victor Colby, James Cole, Norman Daly, Kenneth Evett, Miriam Hitchcock, John Hartell, Victor Kord, Jean N. Locey, Elisabeth H. Meyer, Eleanore Mikus, Gregory Page, Barry Perlus, Stephen F. Poleskie, Arnold Singer, Kay WalkingStick, Jack L. Squier, W. Stanley Taft, through Nov. 12.

"Knots and Nets," featuring more than 70 works that trace the use of knots and nets from functional and ceremonial objects of the 18th, 19th and 20th centuries to contemporary art objects of unexpected form and scale, through Sept. 25. Works by well-known crafts artists Joanne Segal Brandford, Tim Harding, Diane Itter, Rebecca Medel, John McQueen and Jane Sauer are on display.

"Media Buff.: Media Art of Buffalo, N.Y.," the eighth in a series of exhibits by York State artists, devoted to contemporary video and films from Buffalo, N.Y., and organized by Richard Herskowitz, adjunct curator of film and video at the Johnson Museum, through Nov. 12.

Two-day puppetry workshop for children, ages 8-10, on Oct. 1 and 8 from 1-3 p.m. Program instructor Debbie Berman will use a variety of unusual puppets, including a dragon and a butterfly, to discuss works of art, and children will make their own creations, too. Registration deadline is Sept. 16. The workshop costs \$10. For more information and to register call the Education Department, telephone 255-6464.

FILMS

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

Thursday, 9/15

"Summer" (1986), directed by Eric Rohmer,

with Marie Riviere, Lisa Heredia and Vincent Gauthier, 8 p.m., Uris.

"Reed: Insurgent Mexico" (1971), directed by Paul Ledoc, with Claudio Obregon and Eduardo Rojas, co-sponsored by CUSLAR, 8 p.m., Anabel Taylor.

"Hinduism: 330 Million Gods," the second program in Ronald Eyre's series, "The Long Search," sponsored by the South Asia Film Series, 5 p.m., L04 Uris Library.

Friday, 9/16

"Bull Durham" (1988), directed by Ron Shelton, with Kevin Costner, Susan Sarandon and Tim Robbins, 7 p.m., Uris.*

"Bananas" (1971), directed by Woody Allen, with Woody Allen, Louise Lasser and Howard Cosell, 8 p.m., Anabel Taylor.*

"Babette's Feast" (1987), directed by Gabriel Axel, with Stephane Audran, Jean-Phil Lafont and Jarl Kulle, 9:30 p.m., Uris.*

"Mad Max" (1979), directed by George Miller, with Mel Gibson, Joanne Samuel and Hugh Keays-Byrne, midnight, Uris.*

Saturday, 9/17

"Bull Durham," 9:30 p.m., Uris.*

"Babette's Feast," 7 p.m., Uris.*

"Mad Max," midnight, Uris.*

"Young Frankenstein" (1975), directed by Mel Brooks, with Gene Wilder, Madeline Kahn and Marty Feldman, 7:30 p.m. and 9:45 p.m., Anabel Taylor.*

Sunday, 9/18

"Mad Max," 4:30 p.m., Uris.*

Video Art from Media Study presented by John Minkowsky, with tapes by Woody Steina Vasulka, Peter Weibel and others, 2 p.m., Johnson Museum.

"The American Friend" (1977), directed by Wim Wenders, with Dennis Hopper, Bruno Ganz and Lisa Kreuzer, 8 p.m., Uris.*

Monday, 9/19

"The Trip" (1967), directed by Roger Corman, with Peter Fonda, Susan Strasberg and Dennis Hopper, 8 p.m., Uris.*

Tuesday, 9/20

"Hearts and Minds," Southeast Asia Film Series, 4:30 p.m., 310 Uris Library.

"Ping Pong" (1987), directed by Po Chih Leong, with David Yip, Lucy Sheen and Robert Lee, 8 p.m., Uris.*

Wednesday, 9/21

"The Magician" (1958), directed by Ingmar Bergman, with Max Von Sydow, Ake Fridell and Naima Wifstrand, 8 p.m., Uris.*

Thursday, 9/22

"Hypothesis of the Stolen Painting" (1978) and "Of Great Events and Ordinary People" (1979), directed by Raul Ruiz, co-sponsored by Pentangle, 8 p.m., Uris.

"Sherpa," 27 min., sponsored by the South Asia Program Film Series, 5 p.m., L04 Uris Library.

LECTURES

A.D. White Professors-at-Large

"Risk — In Natural Communities and Human Societies," Sir Richard Southwood, Linacre Professor and head of Dept. of Zoology, Oxford University, Sept. 15, 4:30 p.m., Hollis E. Cornell Auditorium, Goldwin Smith Hall.

Astronomy

"Physics of Brown Dwarfs," Hugh Van Horn, University of Rochester, Sept. 15, 4:30 p.m., 105 Space Sciences Bldg.

History & Philosophy of Science & Technology

"On Becoming a Medical Student: Historical Reflections on Obstacles and Opportunities," Dr. Gert H. Brieger, director and The William H. Welch Professor of the History of Medicine, Institute of the History of Medicine, Johns Hopkins University, Sept. 15, 4:30 p.m., 366 McGraw Hall.

Personal Enterprise and Small Business Management Program

"Managing and Enjoying the Entrepreneurial Spirit," Marjorie Blanchard, president, Blanchard



Barbara Lattanzi on the set of her film-in-progress, "Predatory Nature," from the exhibition "Media Buff.: Media Art of Buffalo, N.Y." at the Johnson Museum of Art.

Training and Development Co., Sept. 19, 4 p.m., Warren Hall Room 45.

Renaissance Colloquium

"Nicholas Poussin's 'Landscape with Orpheus': Visual Ideology and Contextual Art History," Sheila McTighe, history of art, Sept. 20, 4:30 p.m., Goldwin Smith 22.

Southeast Asia Program

"Art and Arts in North Thailand," David Wyatt, history, Sept. 15, 12:20 p.m., 102 West Ave. Ext.

"Looking Back at My Trip to Burma," Takashi Shiraiishi, history, Sept. 22, 12:20 p.m., 102 West Ave. Ext.

MUSIC

Bound for Glory

Songwriter Mark Rust will perform three live sets in the Commons Coffeehouse, 8:30 p.m., 9:30 p.m. and 11:30 p.m. on Sept. 18. Bound for Glory can be heard from 8 to 11 p.m. on WVBR-FM93.

Department of Music

Karen Sams will give a piano recital, Sept. 16, 5 p.m., Barnes Hall.

READINGS

A poetry reading by Cleopatra Mathis, English, Dartmouth College, Sept. 15, 4 p.m., Temple of Zeus, Goldwin Smith Hall. Sponsored by the Creative Writing Program.

RELIGION

Sage Chapel

Beverly A. Tasy, assistant director, University Ministries, will deliver the sermon at Sage Chapel on Sept. 18. Services begin at 11 a.m. Music will be provided by the Sage Chapel choir, under the direction of Donald R.M. Paterson.

Catholic

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

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

Christian Science

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

Episcopal (Anglican)

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

Every Tuesday, 8 a.m., morning prayer, Anabel Taylor Chapel.

Every Wednesday, 4:30-6 p.m., open house, 214 Wait Avenue.

Every Thursday, 5 p.m., evening prayer, G3A, Anabel Taylor.

Friends (Quakers)

Sunday, 10 a.m., adult discussion; 11 a.m. meeting for worship, Edwards Room, Anabel Taylor Hall.

Jewish

Yom Kippur

Conservative services in Bailey Hall: Sept. 20, 6:15 p.m.; Sept. 21, 10 a.m.; Concluding services, 5 p.m.

Reform services in Anabel Taylor Hall Auditorium: Sept. 20, 8:30 p.m.; Sept. 21, 10 a.m.; Concluding services, 5 p.m.

Orthodox services in the Anabel Taylor Edwards Room: Sept. 20, 6:15 p.m.; Sept. 21, 9 a.m.

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

Reform Services: Friday evenings 6 p.m., Anabel Taylor Chapel.

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

Orthodox Shabbat Services: Friday evenings, Young Israel House, 106 West Avenue.

Free tickets for the Reform and Conservative services may be picked up in the Hillier office, G-34 Anabel Taylor.

Korean Church

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

Muslim

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

Protestant

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

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

Zen Buddhism

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

SEMINARS

Agricultural economics

"Mirror or Metamorphosis? The 1990 Farm Bill," Robert Thompson, Purdue University, Sept. 16, 3:30 p.m., 145 Warren Hall.

Agronomy

"Automation of the Cornell Nutrient Analysis Laboratory," Gregory A. Ferguson, agronomy, Sept. 20, 4 p.m., 135 Emerson Hall.

Applied Mathematics
 "Minimal Manifolds and Approximate Inertial Manifolds," Edriss S. Titi, mathematics, Sept. 15, 11:15 a.m., 322 Sage Hall.

Atomic and Solid State Physics: Physics Seminar
 "Incommensurability, Soliton Lattice and the Gap Structure," K. Machida, Kyoto University, Sept. 15, 1:15 p.m., 701-702 Clark Hall.

Chemistry, Molecular and Cell Biology
 "Strategies for Plasmid Persistence in Bacteria," Jim Broach, biology, Princeton University, Sept. 16, 4:30 p.m., Stocking Hall 204.
 "The Regulation of Ribosomal Gene Transcription," Ronald Reeder, Division of Basic Sciences, Hutchinson Cancer Research Center, Sept. 20, 4:30 p.m., 204 Stocking Hall.

Boe Thompson Institute
 "Molecular Parasite of Plant Viruses," Peter Bruening, University of California, Davis, plant pathology, Sept. 21, 2 p.m., BTI Auditorium.

Chemical Engineering
 "Surface Organometallic Chemistry in the Chemical Vapor Deposition of Aluminum Films," Ralph Nuzzo, AT&T Bell Labs, Murray Hill, N.J., Sept. 20, 4:15 p.m., Olin Hall 145.

Chemistry
 "Computational Chemistry," Charles F. Wilcox, Sept. 15, 4:40 p.m., Baker 119. General Chemistry Colloquium listing.
 "Catalytic Chemistry of Metal Homo- and Hetero-Complexes: Synthetic and Mechanistic Studies," Eiichi Nakamura, Tokyo Institute of Technology, Sept. 16, 4:30 p.m., Baker 119. Organometallic Chemistry Seminar listing.
 "Enzymatic Catalysis in Organic Solvents," Alexander Klivanov, M.I.T., Sept. 19, 4:40 p.m., Baker 119. Organic Chemistry Seminar listing.

Ecology and Systematics
 "Partridge Populations and Changes in the Cultural Landscape of Britain," Sir Richard Sibly, A.D. White Professor-at-Large, Centre for the Study of the Environment, Oxford University, Sept. 19, 7:30 p.m., Fuertes Room, Laboratory of Ornithology.
 "Field Experiments with Red-Winged Blackbirds," Frances C. James, biological science, Florida State University, Sept. 21, 4:30 p.m., Morrison Seminar Room, A106 Corson/Mudd Hall.

Education
 "Interpretive Research Approaches," Deborah Turnbull, educational psychology, Sept. 20, 12:15 p.m., 131 Roberts Hall.

Entomology
 "The Biochemical and Molecular Genetic Basis of Insecticide Resistance in Peach-Potato Aphid, *Myzus persicae*," Alan Devonshire, Rothamsted Experiment Station, Harpenden, England, Sept. 19, 4 p.m., Morison Room, Corson/Mudd Hall.

Environmental Toxicology
 "Environmental Programs of 3-M Company," Dale Bacon, director, Environmental Management Division, 3-M Company, St. Paul, Minn., Sept. 16, 12:20 p.m., 304 Femow Hall.

Horticulture and Ornamental Horticulture
 "Golf Course Architecture in the British Isles," Gil Hanse, MLA candidate, Sept. 15, 12:15 p.m., Room 404 Plant Sciences.

Food Science and Technology
 "FDA's Role in Regulating Imported Foods," Paul F. Hopper, president-elect, Institute of Food Technologists, department of food science, Sept. 20, 4:30 p.m., 204 Stocking Hall.

Immunology
 "Local inflammatory responses in parasitic infection of the respiratory tract," Dean Befus, microbiology and infectious diseases, University of Calgary, Sept. 16, 12:15 p.m., G-3 Vet Research Tower.

International Legal Studies
 "World Trade and the Global Environment: Are We Importing Cars and Exporting Pollution?" Duane Chapman, agricultural economics, Sept. 19, 4 p.m., Classroom D Myron Taylor Hall.

International Nutrition
 "To Vitamin A Or Not to Vitamin A?" Roger Hampton, division of nutritional sciences, Sept. 15, 12:40 p.m., Flora Rose Room, 200 Savage Hall.



"Babette's Feast," starring Stephane Audran and adapted from a short story by Isak Dinesen, will be shown Friday and Saturday by Cornell Cinema. See listings for details.

Mechanical and Aerospace Engineering
 "Automatic Finite Element Mesh Generation and Analysis in a Parallel Processing Environment," Renato Perucchio, University of Rochester, Sept. 20, 4:30 p.m., 282 Grumman Hall.

Mechanical and Aerospace Engineering Manufacturing
 "Material Requirements Planning," Dick Conway, JGSM, Sept. 15, 4:30 p.m., B14 Hollister Hall.
 "Just-in Time Manufacturing — A Competitive Edge," Horst J. Simon, NCR Corp., Sept. 22, 4:30 p.m., B14 Hollister Hall.

Nutrition
 "Body Composition and Ovarian Function in Women," David Robertshaw, chairman of physiology, Vet School, Sept. 19, 4:30 p.m., 100 Savage Hall.

Peace Studies
 "Indonesian Military Industrial Complex and Japan," Takashi Shiraiishi, history, Sept. 15, 12:15 p.m., G-08 Uris Hall.

Pomology
 "Fruit and Vegetables Marketing Orders — State and Federal," Enrique Figueroa, agricultural economics, Sept. 15, 4 p.m., Whetzel Room, 404 Plant Science Bldg.

Poultry Biology
 "Live Poultry Market in New York City," Tina Winstead, poultry and avian sciences, Sept. 15, 4:30 p.m., 300 Rice Hall.

Rural Sociology
 "Public Problems, Public Policy and Sociology in the U.S. Dept. of Agriculture, 1919-1953," Olaf F. Larson, rural sociology, Sept. 16, noon, 32 Warren Hall.

Russian Literature
 "From Russia with Laughs: Soviet Underground Humor," Emil Draitser, Russian Division, Hunter College and New York School of Comedy, Sept. 19, 4:30 p.m., Kaufmann Auditorium, Goldwin Smith Hall. Co-sponsored by the Committee on Soviet Studies.

Science, Technology and Society
 "How Epoch-Making are High Technologies?: The Case of Biotechnology," Frederick H. Buttler, rural sociology, Sept. 19, 12:15 p.m., Rockefeller 178. Part of an STS speaker series on "Science, Power and Policy."

South Asia Program
 "Caught in Between: Sri Lanka's Other Tamils from the 19th Century to the Present," Patrick Peebles, history, visiting professor from the University of Missouri, Kansas City, Sept. 21, noon, 153 Uris Hall.

Southeast Asia Program
 "Art and Arts in North Thailand," David Wyatt, history, Sept. 15, 12:20 p.m., 102 West Ave. Ext.

Textiles and Apparel
 "Industrial Research Career: e.g., Colgate-Palmolive," E. Gordon Muller, Colgate-Palmolive, Sept. 20, 12:20 p.m., 317 Van Rensselaer Hall.

Theoretical and Applied Mechanics
 "Project Spaceguard," Andrea Milani, University of Pisa, Sept. 21, 4:30 p.m., 205 Thurston.

Theory Center
 "Computer Simulation of Large-Scale Economic Models," Christian E. Petersen, The World Bank, Washington, D.C., Sept. 21, 1:30 p.m., A106 Mudd Hall.

SYMPOSIUM

Cornell Organization of Undergraduate Planners
 "Imaginary Cities: European Views From the Collection of the New York City Art Commission," a symposium in conjunction with an exhibition by the same name in the Hartell Gallery, Sibley Hall, Sept. 20. The influence of European architecture and landscape design on the American city at the turn of the century will be explored, beginning at 11:30 a.m. Speakers will include Patricia E. Harris, executive director of the New York City Art Commission; Deborah Bershad, director of archives and photographs, NY-CAC; Robert Sobieszek, director of photographic collections, International Museum of Photography at the George Eastman House in Rochester; Christian F. Otto, architectural history; and Kermit C. Parsons, professor of planning. For more information, call 255-4331.

Cornell Real Estate Conference
 "Affordable Housing," this year's topic for the annual conference of real estate developers, investors, managers, architects and other real estate professionals, open to interested students, Sept. 23-24.
 "Low Income Housing — The Challenge to the Private and Non-Profit Sectors," Sept. 23, 9:30-11:30 a.m., Bache Auditorium, Malott Hall; "State and Local Housing Innovations in the National Context," Sept. 23., 1:15-2 p.m., Memorial Room, Willard Straight Hall; "Making Moderate Housing Moderate," Sept. 23, 2:20-4 p.m., Bache Auditorium, Malott Hall; "Student Housing Discussions," Sept. 24, 9 a.m., Clark Hall Room 700.

Veterinary Medicine
 A day-long symposium sponsored by the Baker Institute, Sept. 15, in the Hagan Room, Schurman Hall.
 "Mucosal Immunity: An Overview," A. Dean Befus, microbiology and infectious diseases, University of Calgary, 9:10 a.m.; "Mucosal Immunity: *Trichinella spiralis*," Robin Bell and Judy Appleton, Baker Institute, 9:55 a.m.; "Relaxin in Development of Hip Dysplasia and Osteoarthritis," Bernard Steinetz, endocrinology, New York University Medical Center, 10:30 a.m.; "Changes in Hip Joint Tissues Leading to Hip Dysplasia," George Lust, Baker Institute, 11:15 a.m.; "An Overview of Parvovirus Biology," Peter Tattersall, Yale University School of Medicine, 1 p.m.; "A Natural and Unnatural History of Canine Parvovirus," Colin Parrish, Baker Institute, 1:45 p.m.; "Canine Brucellosis: Diagnostic Problems and Some Solutions," Skip Carmichael, Baker Institute, 2:05 p.m.; "Computer Assisted Video Endoscopy of the Uterus of the Pregnant Mare," W.R. Allen, director, Thoroughbred Breeder's Association, Equine Fertility Unit, Cambridge, U.K., 2:40 p.m.; "Genetic Imprinting in Development," D.F. Antczak, Baker Institute, 3:25 p.m.

MISC

Cornell Badminton Club
 Meetings will be held Wednesdays 4:30-6:30 p.m.; Fridays 7:30-9:30 p.m.; Saturdays 11 a.m.-1 p.m. at the Henry St. John gym, located at the Clinton and Geneva streets. For more information call David Sagan 255-0918 or Bill Smith 272-3594.

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

Intramural Broomstick Polo
 Deadline on entries is Sept. 22 at 4 p.m. in the intramural office, Helen Newman Hall. Straight elimination tournament: five to enter, three makes a team. One team per organization. Entry fee of \$20 per team due with roster to enter before deadline.

Intramural Golf (men, women, co-ed)
 Deadline on entries is Sept. 20 at 4 p.m. in the intramural office, Helen Newman Hall. Teams will consist of two players, any number of alternates may be designated, but only two from an organization may compete in the tournament. A charge of \$9 per person is due with roster before the deadline.

Olin Library
 Tours to introduce Olin Library's services, facilities and resources last approximately 30 minutes. Tours meet in the lobby across from the circulation desk:
 Olin Library Research Seminars covering online catalog, Union Card Catalogs, Computer Assisted Search Service (COMPASS), interlibrary services, etc.: To register, stop by the reference desk or telephone 255-4144.
 Government Document Seminar on the organization, use and location of U.S. Government publications: Sept. 17, 1 p.m. To register, stop by the reference desk or telephone 255-4144.

Personal Growth Workshops
 New series began week of Sept. 12. All groups are free and confidential. Sign-up in 103 Bames Hall. Telephone: 255-3608.

Writing Workshop
 Writing workshop walk-in service: free tutorial instruction in writing. Monday-Thursday, 3:30-5:30 p.m. and 7-10 p.m. and Sunday 2-8 p.m., 174 Rockefeller Hall; Sunday-Thursday, 10 p.m.-midnight, 340 Goldwin Smith; Sunday-Thursday, 8-11 p.m., Noyes Center, Browsing Library; and Sunday-Thursday, 8-11 p.m., Clara Dickson Hall, Computer Room.

Job Opportunities

September 15, 1988
Number 35
Office of Human Resources
Cornell University
160 Day Hall
Ithaca, New York 14853-2801

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

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

-Interviews are conducted by appointment only.

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

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

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

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

-This listing is also available on CUIINFO. Terminals are situated in main lobbies of Day Hall & Gannett Clinic, & the Olin, Mann & IIR Libraries.

-DEPTSA.-Deadline for submission is noon on Thursdays for following week's Job Opportunities.

-Minimum salaries listed are for recruitment purposes only.

-S=Statutory; E=Endowed

Administrative and Professional

FACILITY DIRECTOR (PT3517) Biotechnology-E

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

Req.: BS computer sci., engr., physical sci. or bio. sci. Adv. degree pref. 5-7 yrs. mgmt. incl. mainframe, networking (eg. Ethernet), optics & computer graphics. Letter & resume to Judi Baker by 9/30.

FACILITY DIRECTOR (PT3516) Biotechnology-E

Dir., Operations of Biotech. Program: Flow Cytometry Facility/Video Microscopy/Fluorescence Imaging facility. Admin. duties incl. establishing user fees & schedules, budgeting, superv., etc.

Req.: BS physical sci. or bio. sci. MS strongly pref. Working knowl. of specialized equip. used. 3-5 yrs. related lab exp. w/demonstrated ability to self direct & manage a user facility. Letter & resume to Judi Baker by 9/30.

SYSTEMS ANALYST III (PT3513) DL-Quality Milk Promotion Svcs.-S

Analyze, design, develop, implement & document computer applications for Quality Milk Promotion Svcs. in a network & micro or multi-tasking environ. having components or inter-relationships w/other hardware & software systems. Diagnose & correct production systems software problems. Work w/staff to analyze project data.

Req.: BA or equiv. 3-5 yrs. exp. req. Stat. exp. desir. Min. 1-2 yrs. exp. in analytical/problem solving, exp. w/micros. Strong bkgnd. & knowl. of Dbase III+ req. Exp. in editing existing Dbase III+ program. Strong interper. & comm. skills. Knowl. of word processors, utility programs, MS DOS operating system & IBM compatibles. Letter & resume to Judi Baker by 9/30.

RESIDENCE HALL DIRECTOR (PA3508) Residence Life-E

Assume primary program & related admin. duties for residence unit of approx. 500 students. Supv. 8-12 Resident Advisors & 1 Program Asst. Full-time, live-in, 12 month position w/furnished apt. provided.

Req.: BA/BS, MS or equiv. in closely related field pref. 1-2 yrs. exp. in student housing admin., prgrmg., staff trng. & supv. highly desir. Letter & resume to Cynthia Smithbower by 9/30.

MANAGER OF HOUSEKEEPING SERVICES (PA3509) Residence Life-West Campus Area-E

Resp. for mgmt. of housekeeping functions w/in residential area. Direct personnel aspects of area housekeeping staff. Coord. quality assurance, purchasing & inventory for supplies, furnishings & contract svcs. Assist in planning, budget development & analysis.

Req.: BS or equiv. 3-4 yrs. exp. in supv., trng. & institutl. housekeeping. Exc. admin., interper., written/oral comm., human resource develop. skills essential. Familiar w/Mac, IBM PC pref. Letter & resume to Cynthia Smithbower by 9/30.

MUSEUM REGISTRAR (PA3505) Johnson Museum-E

Resp. for safety & maint. of permanent collection, loans to permanent collection & exhibition, plus org. & maint. of collection records, loans & exhibitions.

Req.: MA, museum studies, fine arts, art history pref. (or BA + museum exp.). 1-2 yrs. museum exp. incl. ability to examine & report condition of artwork; awareness of approved storage methods, incl. temp. & humidity control, proper methods of handling/installing works of art, conservation & preservation techniques; familiar w/shipping & customs regulations; & w/info. storage & retrieval. Letter & resume to Cynthia Smithbower by 9/30.

PERSONNEL ASSOCIATE I (PA3504) Human Resources-E

Under genl. supv. of Benefits Mgr., provide wide range of admin., counseling & comm. support in admin. of CU Select Benefits Plan & CU Children's Tuition Scholarship (CCTS) Plan.

Req.: BA/BA or equiv., up-to-date knowl. of benefits area plus basic understanding of personnel policies & practices pref. Strong analytical, org., interper. & comm. (written/oral) skills. Working knowl. of computers. 1-2 yrs. related exp. Letter & resume to Cynthia Smithbower by 9/23.

PERSONNEL ASSOCIATE (PA3501) Academic Personnel Office-E

Assist in processing academic appt. forms & in

administering academic personnel policies/procedures. Shared resp. for maintaining academic personnel info. systems. Prep. academic personnel recommendations for Trustee approval & related duties.

Req.: BA/BS or equiv. pref. in busn./human resource admin. 1-2 yrs. related exp. Strong interper. & comm. (written/oral) skills; able to work independ. & handle confidential matters a must. Knowl. of Mac SE & familiar w/CU's admin. operations pref. Letter & resume to Cynthia Smithbower by 9/30.

DEVELOPMENT ASST. (PA3507) Univ. Development-E

Assist Assoc. Dir., Cornell Fund in planning/implementation of Univ.'s annual campaign & provide assistance w/major reunion campaigns. Design/implement fund raising programs w/in Cornell Fund. Enlist & work w/alumni & student volunteer leaders. Coord. Cornell Fund special events & meetings.

Req.: BA/BS Exc. comm. & interper. skills. 2 yrs. prior exp. w/fund raising through prof. or volunteer exp. Able to communicate w/diverse alumni & student body. Knowl. of CU desir. Letter & resume to Cynthia Smithbower by 9/23.

ASST. DIR., CORNELL FUND (PA3506) Univ. Development-E

Assist Dir., Cornell Fund w/Cornell Fund program development, emphasis on Reunion Class Campaigns. Enlists alumni leadership, sets goals & facilitates Fund objectives. Conducts phonathons. Asst. w/planning, development & implementation of Cornell Fund's efforts to obtain support from other private sources.

Req.: BA/BS 3-4 yrs. exp. Able to communicate persuasively (verbal/written). Good org. ability. Travel req. Letter & resume to Cynthia Smithbower by 9/23.

FARM MANAGER I (PT3515) Physiology-S

Supv. 2 animal techs. & run breeding flock of sheep. Resp. for scheduling work assignments, hiring personnel, ordering various supplies & equip. used. Resp. for animal purchase, breeding program, bldg. pastures & equip. maint.

Req.: BS, animal sci. 3 yrs. exp. in mgmt. of ruminants. 2 yrs. exp. in mgmt. of sheep strongly pref. Letter & resume to Judi Baker by 9/30.

ART DIRECTOR, EDUCATIONAL TELEVISION CENTER (PT3504) Media Services-S

Create, plan, organize & produce broadcast quality, creative & cost-effective graphic & computer graphic images & sequences in support of electronic & multi-media productions of Educatl. Television Ctr. Create & maintain "electronic visual image" for ETV Ctr. in cooperation w/Production Mgr. & Media Svcs. Dir.

Req.: BA, BFA, of MFA, computer graphics animation, paint systems or 3-5 yrs. equiv. commercial exp. in film, TV or animation production svcs. Exc. writing & interper. skills. Knowl. of Cubicomp 3D/2D or similar systems; Chryom scribe; DVES, 35mm photography; Mac & IBM computer systems; TV/film production; TV set design. Letter & resume to Judi Baker by 9/30.

TECHNICAL CONSULTANT II (PT3506) HDFS/Family Life Development Ctr.-S

Provide tech. orientation, trng. & support on use of microcomputers.

Req.: BA in ed. or equiv. exp. 2-3 yrs. exp. w/microcomputers & Mac req. IBM PC highly desir. Working skills must incl. a fifth generation lang., strong system diagnostics & telecomm. Some exp. in PASCAL, C or Basic desir. Letter & resume to Judi Baker by 9/23.

ACCOUNTING MANAGER Student Management Corporation

Asst. Financial Dir. in areas of budgeting, acctg. payable, financial reports & bookkeeping for CU Fraternities & Sororities.

Req.: AAS in acctg. or busn. 1-2 yrs. exp. in admin. & busn. mgmt. pref. Strong org. & verbal comm. skills, knowl. of computer systems. Letter & resume to Student Management Corporation, ATTN: Personnel, Box 3, Willard Straight Hall, Cornell University, Ithaca, NY 14853.

DIR. OF DEVELOPMENT, COLLEGE OF VETERINARY MEDICINE (PA2105) Veterinary Administration-S

Manage daily College development activities incl. Veterinary Annual Fund. Initiate approaches to corporations, foundations & individuals. Will be liaison w/various CU offcs. & college advisory committees.

Req.: BA/BS Exc. comm. (oral/written) & org. skills req. 3-5 yrs. fund raising exp. incl. working w/volunteers. Letter & resume to Cynthia Smithbower by 9/30.

PROJECT COORD. (PA3410) Facilities Engineering-E

Survey & oversee updating of Utility dept. distribution systems to bring them into conformance w/current environmental codes & regulations. Until 3/90.

Req.: AAS in civil, construction or mechanical tech. req. BS pref. 1-2 yrs. exp. in reading, understanding & interpreting utility & bldg. mechanical systems is mandatory. Must be self-directed, have strong interper. & comm. skills, be able to access confined & sometimes remote work spaces, & have/maintain a valid driver's lic. Letter & resume to Cynthia Smithbower by 9/23.

PURCHASING AGENT II (PA3401) Statler Hotel-E

Procure materials necessary for efficient hotel & school of hotel admin. operation in conjunction w/established standards & policies.

Req.: BS, busn. admin. or hotel/restaurant mgmt. pref. 2-3 yrs. food & beverage exp. incl. purchasing bkgnd. Letter & resume to Cynthia Smithbower by 9/16.

EXT. SUPPORT AIDE (PA3407) Agricultural Economics-S

Develop Ext. publication series on alternative agricultural enterprises; provide info. & referrals; assist w/admin. aspects of CU's Farming Alternative Project.

Req.: BS req., MS pref. or 2 yrs. exp. Exc. comm. skills, esp. in agriculture writing/editing.

Strong org./admin. skills. Letter & resume to Cynthia Smithbower by 9/23.

Clerical

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

OFFICE ASST., GR17 (C3506) Summer Session-E

Provide data entry, reporting, phone & clerical support for Summer College.

Req.: H.S. dip. or equiv. Sec. school desir. Able to use IBM PC w/Wordperfect req. Min. 1 yr. offc. exp. pref. Familiar w/CU desir. Med. typing. Min. Biweekly: \$467.98

PERSONNEL ASST., GR18 (C3516) Human Resources-E

Provide staff support in recruitment for non-academic positions as well as coord. advertising placement & billing. Coord. & refer applicants to temporary technical assignments. Resp. for timely & accurate referral of applicant materials; maintain records & statistics; type corresp., provide info. to applicants & depts. on open positions, employment policies & procedures.

Req.: H.S. dip. or equiv. Some college desir. Min. 1 yr. work exp. in personnel-client svcs. of busn. setting. Demonstrated interper. & comm. (written/oral) skills nec. Knowl. of CU helpful. Good org. skills. Familiar w/computers helpful. Med. typing. Min. Biweekly: \$487.50

SECRETARY, GR18 (C3514) Agricultural Economics-S

Prep. of course materials for 5 undergrad. courses (over 1,000 students) (teaching materials, student handouts & exams). Record & maintain student grades; handle student questions; coord. activities of teaching assts., paper graders & others involved in teaching course. 3 yrs.

Req.: H.S. dip. or equiv. Sec. school desir. 1-2 yrs. exp. pref. at CU. Able to operate WP equip. w/exp. in Word or Wordperfect. Working knowl. of Lotus 123. Good interper., org. & comm. skills req. Med. typing. Min. Biweekly: \$444.35

SECRETARY, GR18 (C3505) Peace Studies Program-E

Primary resp. for computer (WP for large & growing program).

Req.: H.S. dip. or equiv. Sec. school desir. WP on IBM computer & 1-2 yrs. offc. exp. req. Knowl. of CU acctg. procedures desir. Med. typing. Min. Biweekly: \$487.50

SEARCHER, GR18 (C3519) Olin Library-E

Search monograph orders & books for libr. system. Input records for orders & books into RLIN database.

Req.: H.S. dip. or equiv. Min. 2 yrs. progressively resp. tech. svcs. exp. Knowl. of Slavic lang. pref. Russian req. Knowl. of 1 or more Western European lang. desir. Lt. typing. Min. Biweekly: \$487.50

SECRETARY, GR19 (C3517) Chemical Engineering-E

Provide academic & research related sec. & admin. support. Type tech. (equations) materials; oversee completion & submission of proposals; schedule appts.; coord. mtgs.; arrange travel; maintain files; answer phones; act as backup for busn. offc. operations.

Req.: AAS or equiv. Min. 2 yrs. sec. exp. req. Exc. comm., org. & interper. skills essential. IBM/Mac PC exp. desir. Heavy typing. Min. Biweekly: \$510.90

ADMINISTRATIVE AIDE, GR19 (C3503) Animal Science-S

Provide wide range of admin., sec. & computer support to 7 Pro-Dairy staff for on & off campus personnel. Establish, maintain work schedules, org. admin. needs for active Ext. project.

Req.: H.S. dip.; AAS pref. Min. 1 yr. admin./sec. exp. Strong org. & interper. skills. Med. typing. Min. Biweekly: \$470.81

OFFICE ASST., GR20 (C3518) Rural Sociology-S

Resp. for typing & editing all dept. requisitions/purchase orders, vouchers, etc.; p/r clerk; purchase & distribute offc. supplies; type & compose memos & letters; supv. work study person(s); back up for other offc. staff as needed.

Req.: AAS or equiv. 2 yrs. exp. Computer exp. w/Lotus & MS Word. Familiar w/CU acctg. & personnel systems desir. Med. typing. Min. Biweekly: \$496.71

SURVEY RESEARCH AIDE, GR21 (C3515) CISER-E

Manage operations for survey research projects, particularly mail surveys. Include oversight & coord. of coders, data entry & clerical personnel. Development & production of survey research requirements incl. customized coding & data mgmt. schemes, mgmt., scheduling & acctg. of survey research projects. Some wknds. & eves.

Req.: BA in social sci. or equiv. Demonstrated ability & min. 1 yr. exp. in project mgmt. Exp. in social research. Knowl. of survey research methods. Knowl. or willingness to learn microcomputers & mainframe applications in project mgmt. & survey research. Exp. & demonstrated skills in layout, Good interper. & org. skills. Attention to detail. Min. Biweekly: \$557.70

ADMINISTRATIVE AIDE, GR21 (C3404) JGSM-E

Provide admin./sec. support to Dir., Busn. Operations & Busn. Mgr. Assist w/all academic & nonacademic personnel matters, incl. processing student employment, p/r, affirmative action, etc.

Req.: AAS or equiv. BA pref. Min. 2-3 yrs. offc. exp. Fast accurate typist. Familiar w/Lotus 123, Mass 11 & computer hardware desir. Heavy typing. Min. Biweekly: \$557.70

ACCTS. COORD., GR21 (C3520) Biotechnology-E

Provide admin. support to Directors of 5 biotech. research facilities, budgeting, acctg., user scheduling & billing, grant applications, etc.

Req.: AAS or equiv. in acctg. pref. Min. 2 yrs. related exp. w/CU acctg. systems req. Knowl. of IBM PC or Mac desir. Lt. typing. Min. Biweekly: \$557.70

General Service

REGULAR EMPLOYEES

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

NURSES AIDE, SO03 (C3311) Health Services-E

Asst. clinicians & nurses. Prep. patients for med. exams. Clean & stock exam rooms & prep. solutions. Rotating shifts-5 days/wk., 8:30-5 & 4:30-12.

Req.: H.S. dip. or equiv. Nurse Aide/Health Asst. cert. pref. Recent exp. in health related svcs. Strong interper. & comm. skills. Able to work independ. in emergencies. Letter & resume to Esther Smith. Min. hourly: \$6.00

FOOD SERVICE WORKER, SO04 (G3502) Dining-E

Prepare & present foods for service through own efforts &/or through coord. of assigned staff for Co-op, cash, catering or special events. Shift subject to change.

Req.: H.S. dip. or equiv. 1 yr. exp. as FSW SO02 or 2 yrs. related exp. Demonstrated in-depth knowl. of food prep. & presentation. Good interper., org. & comm. skills. Ability to train & coord. work of assigned staff. Min. hourly: \$6.25

ANIMAL ATTENDANT, SO04 (T3511) Clinical Sciences-S

Assist w/handling horses & other livestock in research herd. Feed, clean stalls, groom, transport animals. Put in feed & bedding, genl. farm maint. work. Mon.-Fri.

Req.: H.S. dip. or equiv. 1-2 yrs. exp. handling horses of all ages & sizes (stallions), some handling of sheep, cattle & goats. Drive a pick-up truck, horse trailer, tractor. Exp. w/routine farm maint. work. Apply by 9/23. Min. hourly: \$6.06

UNIV. SERVICE OFFICER, GR02 (G3503) Public Safety-E

Resp. for prevention & detection of criminal behavior; external & internal patrol of Univ. property within assigned area for fire, safety & crime hazards; enforcement of parking regulations on campus.

Req.: H.S. dip. or equiv. Formal ed., trng. or exp. in law enforcement field pref. Satisfactory completion of basic Univ. Service Officer trng.-U.S. citizenship; eyesight 20-40 corrected to 20-20; no record of convictions other than minor traffic infractions. NYS driver's lic.; able to obtain NYS pistol permit within 90 days of employment. Must pass physical exam. Letter & resume to Esther Smith. Min. hourly: \$6.75

Technical

REGULAR EMPLOYEES

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

TECHNICIAN, GR18 (T0810) Plant Biology-S

Prep. & examine histological preparations using cytological procedures, especially immunocytochemistry. Perform assoc. data gathering, photography, routine analyses. Use of microscope essential.

Req.: AAS in bio.; BS pref. Knowl. of plants useful. Previous exp. in microscopy, histology of plant &/or animal tissues, staining procedures incl. histochemistry. Apply by 9/23. Min. Biweekly: \$443.13

ANIMAL TECHNICIAN, GR18 (T3512) Vet Micro., Immunol. & Parasit.-S

Care of large & small animals under isolation unit conditions, collect blood & other samples, assist in maint. of research records & physical plant upkeep. Able to lift 100 lbs. Until 6/30/89.

Req.: H.S. dip. or equiv. AAS pref. Min. 1 yr. exp. in humane animal handling; able to collect clinical samples (blood, urine, feces, nasal swabs, etc.). Prior isolation care exp. Pre-employment physical exam req. Valid NYS driver's lic. Apply by 9/23. Min. Biweekly: \$444.35

TECHNICIAN, GR18 (T3502) Equine Drug Testing-S

Perform analysis of blood & urine samples in field drug testing lab at Monticello Raceway. Routine recordkeeping & lab maint. 39 hrs./wk. incl. Sat., Sun. & holidays.

Req.: AAS in chem. or med. lab tech. or equiv. exp. req. Exp. w/thin layer chromatography. Familiar w/gas chromatography. Apply by 9/23. Min. Biweekly: \$443.13

ANIMAL TECHNICIAN, GR18 (T3510) Equine Drug Testing-S

Train, exercise & care for horses. Administer drugs, collect blood & urine samples, treat cuts & abrasions. Groom horses, clean & repair harnesses. Keep records of drug administration trials.

Req.: H.S. dip. or equiv. AAS pref. Able to

administer drugs & use vacutainers for blood collection. Min. 1 yr. exp. in exercise & grooming of horses. Able to catheterize mares. Apply by 9/23. Min. Biweekly: \$444.35

MEDIA TECHNICIAN, GR21 (T3406) Media Services-S

Operate broadcast & instructl. color TV cameras & related equip. Assist in production of educatl., instructl. & documentary TV productions. May assist in radio & film. Erratic hrs. incl. occasional wknds. & eves.

Req.: BA in TV production desir. or equiv. exp. Demonstrated exp. in TV or film camera operations. Knowl. of TV graphics prep., still photography, audio recording, & stagecraft techniques helpful. Letter, resume & video tape to Judi Baker. Min. Biweekly: \$527.58

TECHNICIAN, GR22 (T3313) Pharmacology-S

Carry out physiol., biochem. & pharmacol. studies on control of insulin release. Prepare solutions, perfusion of tissue, enzyme assays, cell constituents analysis, radioimmunoassay, data collection & sci. equip.

Req.: BS or equiv. in biochem., bio. or neurobio. pref. 2 yrs. lab exp. w/rats & mice pref. Min. Biweekly: \$556.16

COORD./ACADEMIC COMPUTING FACILITIES, GR23 (T3507) Academic Computing-E

Provide complex computer support to facility users. Operate mainframe & micro equip. in computer facility. Monitor equip. performance & report repair problems.

Req.: AAS or equiv. computer coursework/bkgnd. 3-5 yrs. related exp. (CU Systems pref.). Strong interper., comm. & org. skills. Prgrmg. ability desir. Knowl. of Wordperfect, Lotus, Dbase & a variety of Mac software. Familiar w/graphics equip. essential. Apply by 9/23. Min. Biweekly: \$604.49

ACCELERATOR OPERATOR, GR24 (T3207) Nuclear Studies-E

Skilled work in operation of computer-controlled accelerator system & on special projects related to maintaining & improving system components.

Req.: AAS in electronics or comparable trng. through similar in-service courses or programs; or BS in physics. Apply by 9/23. Min. Biweekly: \$639.60

Part Time

FOOD SERVICE WORKER, SO02 (G3501) Dining-E

Prepare, present & serve food items for Co-op, cash, catering or special events. Shift subject to change; 35 hrs./wk.

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

CIRC./RESERVE ASST., GR16 (C3507) Uris Library-E

Cornell Real Estate Council to examine housing crisis, presidential platforms

More than 100 real estate professionals will meet here on Sept. 23 and 24 to discuss the nation's needs for affordable housing and to debate the Democratic and Republican presidential campaign positions on housing.

David Schwartz of Cornell's Real Estate Council said that students are welcome to attend.

"The lack of affordable housing has become a national crisis," Schwartz said. "Housing needs cut across the income spectrum, so we have asked professionals who produce a wide range of housing products to serve as panelists in this year's annual Real Estate Conference."

"In this time of dwindling federal participation in housing, we will discuss how the private sector and local public entities can work together to produce and restore needed housing for some of our most vulnerable citizens."

Problems relating to middle-class housing also will be discussed.

Paul Grogan, president of the Local Initiative Support Corp., the nation's largest private community development agency, will deliver the keynote address on "State and Local Housing Innovations in the National Context" at lunch on Sept. 23 in the Memorial Room of Willard Straight Hall.

Begun in 1980 by the Ford Foundation and six major corporations, the Local Initiative group invested \$27 million last year in grants, below-market loans and equity in more than 200 housing revitalization projects. About 500 corporations and foundations have provided \$175 million in operating funds for the Local Initiative program.

Other conference speakers:

- Kathryn Wylde, senior vice president of the New York City Housing Partnership, founded by David Rockefeller to provide 2,000 homes a year in communities that do not attract private residential development.

- Louise J. Elving, director of housing development for

Greater Boston Community Development Inc., which supervises housing projects in New England with public assistance and private financing.

- Dennis M. Penman, executive vice president of M.G. Peterson Real Estate, a residential and land development organization in western New York State.

- Robert T. Strudler, chairman and chief executive officer of U.S. Home Corp., which builds residential units ranging in price from \$50,000 to \$200,000 in states from California to New Jersey.

- Austin Guirlinger, president and board chairman of Cardinal Industries Inc., the nation's leading manufacturer of modular houses and second largest builder of multifamily housing units.

- Ara Hovnanian, president of Hovnanian Enterprises Inc., a developer of condominiums, town houses and single-family residences in the northeastern states and Florida.

- Phillip E. Comeau, president of Oxford Realty Advisors Corp., which manages and develops residential and commercial real estate in 20 states.

Theodore J. Lowi, the John L. Senior Professor of American Institutions, who specializes in studies of the U.S. presidency, will moderate a debate between representatives of the national Democratic and Republican parties on "Housing Policy and Party Platforms" on Sept. 23 at 9 p.m. in the Memorial Room of Willard Straight Hall.

The Cornell Real Estate Council is an organization of real estate developers, investors, attorneys and architects from across the country and abroad who advise Cornell on the university's real estate interests.

Faculty and the council have proposed to the university's Board of Trustees that Cornell offer a two-year academic program in real estate for graduate students.

—Albert E. Kaff



Emil Ghinger

LATEST ADDITION — Tom Leavitt, director of the Herbert F. Johnson Museum of Art, and the latest addition to the museum's permanent collection, an oil painting titled "Lucifer's Falls, Thomkins Co NY," by Henry Walton, Ithaca's best known 19th-century artist. The 1848 painting was acquired with the help of museum members and friends through a campaign chaired by local artist Mary Lee Herbster and her husband William G. Herbster, former senior vice president of the university. Many of Walton's works are owned by area residents and organizations. His "Fireman's Parade Banner," owned by the Ithaca Volunteer Fire Company is valued at \$200,000.

Trustees *continued from page 1*

percent, up from 53 percent last year. The number of students who enrolled compared to the total number offered admission grew slightly to 49.6 percent compared to 49.5 percent last year.

Rhodes said the Cornell Tradition, an alumni-sponsored job program for students in financial need, "continues to have a positive influence on our prospective and current students; 67.4 percent of the admitted students who were named as Cornell Tradition fellows enrolled this fall."

He noted that 509 students from last year's student body were placed in summer jobs through the Cornell Tradition this year.

Rhodes told the trustees that 27 minority members have accepted offers of faculty positions at Cornell so far this year. Last year the number was 12, he said.

"This remarkable increase can be attributed mainly to direct aggressive involvement on the part of the dean and associate dean of the College of Arts and Sciences in searches, as well as to specific funds set up by the provost for this purpose," he said.

Rhodes reported that the New York State Legislature had passed a bill to increase the State University's bonding authority by \$1 billion, including more than \$100 million for facilities at the state-supported colleges at Cornell.

Rhodes thanked Trustees Austin H. Kiplinger, John S. Dyson, Harold Tanner, Robert G. Engel and Robert F. Cole for their efforts to secure passage of the legislation. During the meeting it was reported that Governor Cuomo had signed the bill.

The trustees were unable to act on the operating budget request to the state of New York for its colleges at Cornell because the state's budget process was slowed by the deficiency in predicted tax revenues.

"Unfortunately, the needs of the statutory colleges for increased state support in 1989-90 far exceed the level that we can realistically expect to be entertained, given the state's current and projected revenue

shortfalls," Provost Robert Barker told the executive committee.

"In response to the requirement to balance the state budget, many of the colleges' needs must be deferred," Barker continued. "Our request for increased funds, however, will attempt to protect the quality of the colleges' existing programs."

The need for increased resources the provost outlined for the trustees included:

- \$7.2 million for inflationary increases to maintain existing programs.

- \$2.1 million for additional facilities maintenance, senior faculty salaries, library automation and beefed-up student services.

- \$1.1 million to enhance high-priority programs, including the American Indian Program, the Program for Employment and Workplace Systems, the Industry Studies Institute, Nutritional Sciences and the ILR/Baruch Graduate School.

- \$5.1 million to aid localities in connection with the Cornell Cooperative Extension initiative for area-wide specialists.

The increase for inflation, it is hoped, will survive the State University of New York's budgeting, and at least some of the program requests will be entertained — although the system had to absorb a \$10 million budget reduction this year, of which \$700,000 was Cornell's share.

The trustees ratified the acceptance of \$5 million from the state to pay for the new Solid Waste Combustion Institute directed by Professor Richard Schuler. The money comes from restitution of oil company overcharges won by the state in a lawsuit. The institute will study how incineration can be used along with recycling to cope with the state's mounting garbage disposal problems.

The previously announced plan to acquire a second IBM 3090-600E supercomputer for the Theory Center also gained formal approval. The \$24 million machine, coupled to the original unit, will put Cornell's center at the leading edge of all supercomputer centers, and the financial arrange-

ments involved are very favorable to the university, the trustees were informed.

Rhodes informed the trustees of the decision not to reconsider reinstatement of Phi Gamma Delta until the end of the four-year period set forth for the fraternity to meet specific criteria demonstrating that the house would be acceptably run in the future. He said the criteria were reviewed by Vice

President for Campus Affairs William Gurowitz who found they have not been met.

"This may sound harsh," Rhodes said, "but it is meant to take a firm position on the seriousness of the fraternity's misconduct. What is at stake is the integrity of the fraternity system — as well as the way women are treated on campus."

—Irv Chapman

Rhodes *continued from page 1*

The panel he headed has proposed several steps, Rhodes told the congressmen. They include having "our national leaders — meaning you in Congress and the president — stimulate economic growth and restore national solvency — in other words, deal with the federal budget deficit."

Also, higher education must renew and strengthen efforts to increase minority recruitment, retention and graduation, and must work more closely with elementary and secondary schools to ensure minority achievement, Rhodes said. Private and voluntary organizations must expand and initiate programs to increase minority participation and achievement, and minority leadership must be stronger within its own communities and society at large.

"In education, employment, income, health, longevity and other basic measures of individual and social well-being, the historic gaps between members of minority groups and the majority population persist — and in some cases are widening," Rhodes told the congressmen.

"If we fail to address this problem adequately, we will face not only continuing social injustice, but also increasing social discord and disruption. Such a failure would endanger our national security, as well as our ability to compete in the international marketplace."

—Mark Eyerly



Graduate Bulletin

Course Enrollment: Bring completed and signed course enrollment forms to Sage Graduate Center between 8:15 a.m. and 4:15 p.m. through Sept. 16.

Special Committee Selection and Change Form: Check with your field regarding number of faculty signatures; bring completed form to Sage Graduate Center by Sept. 16.

Dissertation Deadline: Ph.D. candidates who have defended dissertations and submitted two acceptable copies to the Graduate School by Sept. 16 will not be charged the \$200 Active-File fee for fall 1988.

Course Changes: Deadline for changing grade options, credit hours, and dropping courses is Oct. 21. A \$10 late fee is charged for any change after this date. A course dropped after Oct. 21 will appear on transcripts with a "W" (withdrawn) unless the course instructor and committee chairperson recommend, prior to final exams, that the "W" be deleted.

Job Opportunities *continued from page 6*

Good comm. skills, strong org. skills, able to work w/little supv. Mature individual needed. Mac exp. desir., but not nec. Part-time; M-F, until 12/15. Letter & resume to Laurie Worsell.

RESEARCH EQUIP. TECH. (T3509) Agricultural & Biological Engr.-S

Asst. in construction & operation of highly innovative sewage treatment system. Skills needed incl. carpentry, glass work, pipe bending, pipe threading, plumbing, welding, metal cutting, space lighting & heating installations.

Req.: H.S. dip. or equiv. Knowl. of power equip. operation; plumbing; truck driving; exp. w/water, sludge pumps & repairs; welding & acetylene torch metal cutting. Able to drive trucks & operate heavy equip. NYS driver's lic. req. Apply by 9/23.

OFFICE ASST. (C3512) Education-S
Assist coord. in obtaining, assembling & dis-

tributing materials for NY Agriculture in Classroom. M-F, 12:30-4:30.

Req.: H.S. dip. or equiv. Valid NYS driver's lic. Min. level competence on Mac Computer. Lt. typing. Letter & resume to Laurie Worsell.

FIELD ASST. (T3105, T3107) Vegetable Crops-S

Assist in harvesting & data collection for potato, bean & vegetable trials. 30-39 hrs./wk. dependent upon weather.

Req.: H.S. dip. or equiv. Driver's lic. req. Able to drive farm tractor. Apply ASAP.

MEDIA ASST. (C3008) Summer Session

Use Mac to assist div. Media Mgr. in production of brochures, fliers, ads, forms & other printed material. 4-6 mos. position.

Req.: AAS or equiv. 1-2 yrs. exp. in media-related field pref. Exp. w/Mac comp. req. Knowl. of Pagemaker helpful. Letter & resume

to Laurie Worsell.

SLIDE LIBRARY ASST. (C3416) History of Art

Asst. in History of Art Slide Library. Type labels for slides. Some cataloguing.

Req.: Good typing essential. Art history bkgnd. & exp. in visual arts libr. desir. Casual; 9 month appt. Letter & resume to Laurie Worsell.

PAYROLL COORD. (C2310) Administrative Svcs.

Resp. for p/r & personnel functions for Admin. Svcs., Facilities Engr., Grounds & Utilities non-exempt personnel (120+ employees), incl.: processing personnel action forms, prep. p/r vouchers, workers compensation & disability forms, calculating sick/vacation balances, maintaining employee files, reconciling p/r & job cost labor hrs. FT, 6 months. Letter & resume to Laurie Worsell.

Academic

RESEARCH ASSOCIATE (A3501) Food Science

Develop & apply methods for assessing bio-availability of Ca from dairy foods.

Req.: PhD or equiv. in nutrition, food sci./technology or related area. Post animal feeding studies, food analysis essential. Letter of application, CV & names of 3 references to Dr. Dennis Miller, Food Science, Stocking Hall, Cornell University, Ithaca, NY 14853.

INSTRUCTOR (A3502) NYSSILR, Personnel & Human Resource Studies

Part-time. Contact John Boudreau, 393 Ives Hall, Cornell University, Ithaca, NY 14853. 255-2273.

ASST./ASSOC. PROFESSOR (A3503) NYS-SILR, Collective Bargaining, Labor Law & Labor History

Tenure track. Contact Prof. Harry Katz, 293 Ives Hall, Cornell University, Ithaca, NY 14853.

EXTENSION ASSOC.-RECRUITMENT (A3504) Staff Development & Recruitment Offc.

MA in area approp. to resp. of position: e.g., agriculture, ext./adult & continuing ed., education, admin., human resource mgmt., communications. 3 yrs. exp. in recruitment, admissions, student svcs., ed. or agriculture. Letter of intent & resume to Sally A. Clark, 212 Roberts Hall, Cornell University, Ithaca, NY 14853 by 9/29.

Molecular 'parasities' to be BTI lecture topic

The possibility of using a tiny piece of genetic material called a "satellite RNA" as a biological weapon in combating destructive virus infections in plants will be the subject of a Boyce Thompson Institute Distinguished Lecture on Sept. 21 at 2 p.m. in the institute's auditorium.

Molecular biologist George Bruening, a professor of plant pathology at the University of California at Davis, will deliver the lecture, entitled "A Molecular Parasite of Plant Viruses."

Bruening has shown that the satellite RNA requires a plant virus called tobacco ringspot virus to help it replicate in plants, according to BTI President Ralph W.F. Hardy.

Although the satellite uses the ringspot virus as a so-called "helper virus" for replication, it interferes with the replication of the helper virus, reducing the number of the virus produced in plants.

Bruening's lecture will be the 25th since BTI inaugurated its Distinguished Lecture Series in the Life Sciences in January 1987.

Recycle this paper

... along with other newsprint, computer print-out, colored and white paper.

Barton Blotter:

Stuffed osprey recovered

A stuffed osprey reported stolen from Stimson Hall on Sept. 2 was recovered undamaged in a parking lot in downtown Ithaca about 9:30 p.m. on Sept. 6 based on information received from an anonymous phone call, according to the morning reports of the Department of Public Safety for Sept. 6 through 11.

There were 11 thefts reported on campus during the period, with losses in cash and valuables set at \$1,172. Thefts included a \$300 camera taken from Sibley Hall, a microwave oven and beer keg worth \$350 stolen from Kappa Alpha Society, and \$228 in cash and valuables taken from a purse left in a car parked in Cornell Plantations.

Spencer to direct Cornell's occupational health and safety

James W. Spencer, former vice provost for budgeting, planning and analysis and professor emeritus of agricultural engineering, has been named director of occupational health and safety programs for the university.

He takes the place of W. Donald Cooke, who directed health and safety programs since 1983. The Spencer appointment was effective Sept. 6.

The university's occupational health and safety director oversees Life Safety Services and the Office of Environmental Health, and is chairman of the Health and Safety Board.

A specialist in highway engineering, Spencer joined the faculty of the College of Agriculture and Life Sciences in 1951 and earned a Ph.D. in civil engineering and economic planning from Stanford University in 1967. He holds BCE and MCE degrees from Cornell. Spencer was named a special assistant to the university president in 1978

and vice provost in 1979. He retired as vice provost in 1987.

Joseph M. Ballantyne, vice president for research and advanced studies said, "Jim Spencer comes to this position with a rich background of relevant experience. He is ideally equipped to deal with the state and federal regulatory agencies, to analyze alternative solutions to environmental health and life safety concerns and their financial ramifications, and to work with faculty to find solutions to concerns as they may surface in the workplace. Jim will be an excellent leader and strategist for these programs."

Ballantyne said Cooke "will be sorely missed, since he has been involved in many health and safety programs from their inception. He deserves much of the credit for the university's exemplary program in occupational health. Don has been a very effective leader and deserves our deepest thanks for serving two additional years past the time he officially retired from the position."

AIDS booklet *continued from page 1*

Frank H.T. Rhodes.

"But we also realize that sexuality is an integral part of life," Elkind said. "The advisory committee feels that students, faculty and staff will benefit from the best available information in order to modify behavior and avoid spreading this serious disease."

Elkind noted that the booklet has been reviewed by the Executive Committee of the Faculty Council of Representatives, the Deans' Council, President Rhodes and the executive staff of the university. All agreed that the booklet should be distributed to all members of the campus community.

The AIDS Advisory Committee is made up of health and health-education professionals from the university and the Ithaca community, university administrators, faculty members, and graduate and undergraduate students. Financial assistance for printing and distributing the booklet came from the Veranus Moore Fund, the Whistling Shrimp theatrical troupe and Cornell.

The booklet includes chapters on the sources and results of HIV (human immunodeficiency virus) infection, on how AIDS is and is not spread, and on demographics of the disease as well as information on what to do about preventing AIDS transmission, on HIV testing and confidentiality, on reducing "AIDS anxiety" and maintaining general health.

The booklet emphasizes that AIDS is not transmitted by casual, non-sexual contact or by giving blood, but points to the dangers of sharing contaminated drug needles.

"Although we strongly advise against the illegal use of drugs, we believe we have a responsibility to help people who do not accept our advice minimize their risk of contracting AIDS," the booklet states, listing nearby sources for drug rehabilitation.

Printed in the booklet is the university policy on AIDS, which states, in part, that students or employees with AIDS, AIDS-related complex or a positive HIV antibody test do not pose a risk to others in an academic setting and should not be restricted in work, study or extracurricular activities.

Readers of the booklet are urged to make a "personal plan" to assume responsibility for sexual behavior and control the risk of HIV infection. The importance of communication — before sexually intimacy — is highlighted, along with suggestions for

"breaking the ice" on that sensitive topic.

Specific details are provided for practicing "safer sex" under the headings "safest activities," "possibly safe activities" and "unsafe activities." Another section gives instructions on the use of condoms.

Much the same information already has been offered in newsletters and other publications from University Health Services, Elkind noted. However, the "Information About AIDS for the Cornell Community" booklet is the university's first comprehensive effort to reach everyone. Faculty and staff members will receive the booklet in the campus mail, and it will be distributed in residence hall mailboxes to students living on campus and through the U.S. mail to students living off campus. Students enrolling at the university later in the academic year also will receive the booklet, as will students in the Medical College in New York City.

Besides the informational resources and counseling services offered by University Health Services, health educators at the campus clinic have been training student "peer educators" to present workshops on AIDS to other students. Beginning this fall in student residences, SAFER (Students for AIDS Facts, Education and Responsibility) workshops will combine skits, narrated slide shows and discussions.

Elkind said the new AIDS booklet goes beyond an earlier brochure sent by the federal government to every household in the United States by recognizing the fact of the readers' sexuality and tailoring information to a college community.

"This is down-to-earth, basic information on dealing with a deadly disease," Elkind said. "The manual is relatively explicit because the only way to limit the spread of AIDS is by providing specific information. We can't make decisions for anyone, but we can discuss health implications of their decisions about sexual behavior."

The Gannett Health Center offers free, anonymous and confidential HIV antibody testing through the New York State Health Department, as well as general information and counseling about AIDS.

For HIV testing, call the Gannett Health Center at 255-6958 or Syracuse/Ithaca HIV Testing at (315) 428-4736.

For general information about HIV test-



Jill Peltzman
Dr. Leslie Elkind, director of University Health Services, and Janis Talbot, director of health education, with informational booklets on AIDS for distribution to the campus community.

ing and AIDS, call the Gannett Health Center, 255-6958; Tompkins County AIDS Task Force, 272-4098; Southern Tier AIDS

program, 723-6520; or the New York State AIDS Hotline, 1-800-462-1884.

—Roger Segelken

Kitty Dukakis *continued from page 1*

behind when we go off to work," she said, adding that she learned the importance of child care when she returned to undergraduate college after becoming a mother.

"Twenty-five percent of working women have lost their jobs or been demoted because of a lack of child care," Dukakis said.

During a brief question-and-answer session, a student asked her what she would do in the White House if her husband is elected.

"I would want to continue my work for adequate and permanent shelter for the homeless," she replied. "I want to work with my husband in providing affordable housing. I want to continue my involvement in resettlement of refugees from Cambodia and Vietnam and helping reunite them with their families."

She said that her other interests include

drug problems, alcoholism and national health care, adding that only South Africa and the United States lack universal health care systems.

"The present administration is losing the war against drugs," Dukakis said. "We have cut funds for the Coast Guard, and Coast Guard vessels are sitting idle because there is no money for gas. The administration has cut funds for interdiction and education in drug problems by 50 percent."

At a five-minute news conference following her two public appearances, Dukakis was asked to comment on national polls that show her husband trailing Bush.

"The only figures that count are the \$2.3 trillion national debt, the 3 million people who are homeless and the drug victims," she replied.

Lynn C. Williams of Elmira, N.Y., a sen-

ior in the School of Industrial and Labor Relations and president of the Women's Caucus, said the Dukakis visit was the best opening-year event ever sponsored by the organization.

"We're just getting organized for the new academic year, and we only have about 10 members, but we expect many more after Mrs. Dukakis' visit," Williams said.

The student-run Women's Caucus arranges speakers on women's issues, holds social events for students and faculty, provides educational materials on women's problems and conducts career forums.

Williams and David Lipsky, dean of the School of Industrial and Labor Relations, introduced Dukakis.

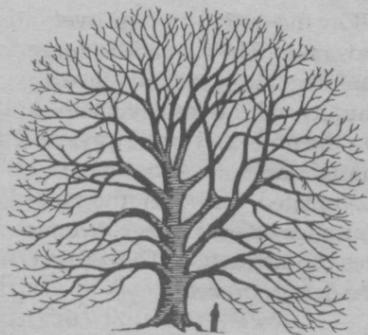
Outside Ives Hall, about 40 students carrying placards for Bush and running mate Dan Quayle said that security officers de-

nied them entrance into the lecture room even though they held tickets. They denounced Dukakis' visit as a political rally that violated the campus code.

The pro-Bush students walked around Ives Hall while Mrs. Dukakis spoke, waving to spectators inside but remaining quiet. After she left, they gathered on the sidewalk between Ives and Uris halls while one of them delivered a speech protesting the visit as a political rally inappropriate to a university.

University spokesman David I. Stewart said that space limitations in the two rooms was the only reason anyone was turned away. "A number of students with tickets could not get in because of limited space and fire and safety restrictions on how many people are allowed inside," Stewart said.

—Albert E. Kaff



Cornell Plantations

Inside:

- Plantations' Trail Guide
- Using the Natural Areas
 - Volunteer News
 - Education Program Course Listing

Vol. 1 #2

LEAP: LEarning About Plants

Where do plants get their food? Most children, when asked this question, will suggest that a plant's food comes from the soil. In fact, plants don't get food from any place: plants make their food from relatively simple inorganic elements using the energy of the sun.

Concepts like this lie at the heart of a new life science curriculum being developed at Cornell Plantations. Through a grant from the National Science Foundation, the LEAP program has been designing lessons for grades K through 6 that use plants as a medium to teach basic science concepts.

"LEAP stands for LEarning About Plants," says program administrator, Julie Shattuck. "We have been working with Cornell's Department of Education and the local schools to build a conceptually-based curriculum that gives children hands-on experience with both plants and animals."

The LEAP curriculum is based on current theory about the way one effectively learns new concepts. Bob Cook, Plantations director, says "Children come to their first learning experience with fully formed preconceptions about how the

world works. Unless the teacher understands these preconceptions, classroom teaching may go in one ear and out the other."

LEAP staff have been conducting research on children's misconceptions about science. They conduct interviews with students before and after the lessons. This information will provide teachers with a good starting point.

"When you get children to really understand that most of the mass of an oak tree is actually made from air, from the carbon in carbon dioxide, then you have fundamentally altered the way they understand science," says Bob Cook.

By weaving this conceptual change approach throughout the curriculum, LEAP is providing critical resources for teachers that will also satisfy the life science requirements of the New York State syllabus.

"With our commitment to public service and the preservation of community values," says Director Cook, "LEAP is an excellent example of a program that extends the expertise of the university to the solution of a critical public problem."



Root crops store food for plants and people.
Photos this page: J. Isbell.



Ruth Yarrow and Ron Miller measure their ears in educational activity demonstrating variations within a population.

Quantum LEAP

This fall the LEAP program will be available to over 4,000 local elementary children—a quantum leap from the original number of 150 students two years ago when LEAP was first piloted at Trumansburg Elementary School. In September, teachers in the entire Ithaca school system will join in the testing of this new elementary life science curriculum.

Parents can expect their children to quiz them with such questions as "What is alive, once was alive, or never was alive?" This is a concept being introduced at the first grade level. (One answer might be—

a tree, a hamburger patty, and a rock.)

The activities included in each lesson will be fun as well as informative and will encourage children to expand and develop their ideas. At the beginning of a lesson teachers might ask children to list their ideas about what plants need to grow. Then, as a group, they would try to come up with ways of testing their theories. This effectively puts children in charge of their own learning.

Teachers from both Ithaca and Trumansburg have been involved in the design of this new science curriculum. "Teacher evaluations of the

materials have been the key to the development of LEAP so far," says Julie Shattuck, program director.

"Their involvement has helped the curriculum designers fine-tune the lessons so that they achieve maximum learning impact and, at the same time, are easy for the teacher to set up and do."

Teachers have been familiarizing themselves with these activities in workshops run by the LEAP staff. At the end of these workshops, they will be able to overcome the inevitable—rotting seeds, rainy days, and unanticipated questions.

Team Tackles Difficult Problem

Julie Shattuck, administrator for the LEAP program at Cornell Plantations, brought her youth and enthusiasm to a big job. With a Masters in Education Administration from Washington State University and practical experience working in the maze of grant applications procedures, she works on a team with curriculum designers, Ruth Yarrow and Becky Lash, and research assistants, Meg Richardson and Buffy Silverman. Together they have forged a life science curriculum, now being piloted in the Trumansburg and Ithaca school districts.

"We feel that the LEAP program has tremendous potential to be a catalyst for changing the way science is taught," says Shattuck. "Not only because the activities are much more attuned to the way children learn, but because of the

support system it affords teachers who adopt it."

The first phase of expansion will involve disseminating the program to interested schools through BOCES (Board of Cooperative Educational Service) in the State of New York. If the program proves successful in the state, then it will be made available for wider distribution across the country. Seed money for the development of LEAP has come from a grant from the National Science Foundation.

When asked about the design process, Shattuck confided, "We have definitely had times when we were spinning our wheels looking for answers. There are no easy solutions to the difficult problem schools are facing and of injecting science into and already packed school day."

"At the heart of what we are



Julie Shattuck with students from Trumansburg during a fieldtrip to Plantations.

doing," she concluded, "is a program that will help make science teaching more successful. That means not only developing a good curriculum, but

being sensitive to the needs of the schools and teachers who will implement it."

Guide to Plantations' Trails

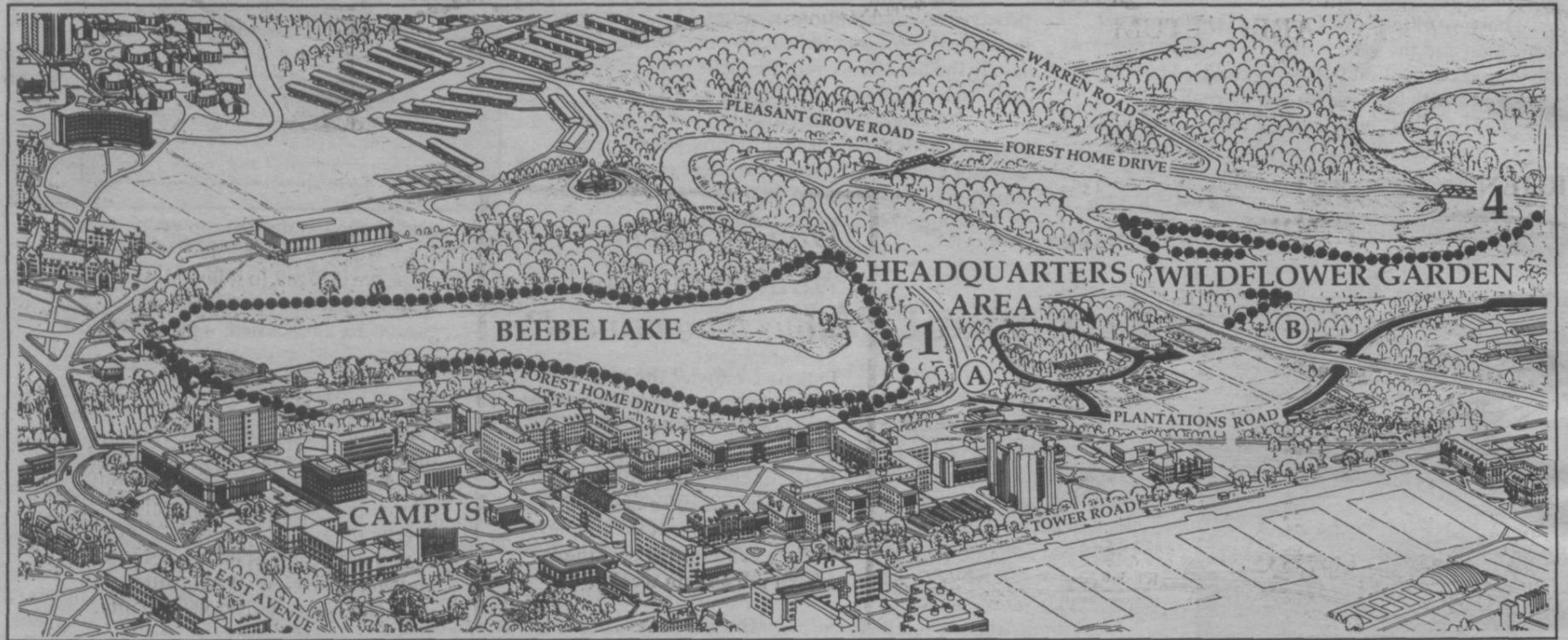
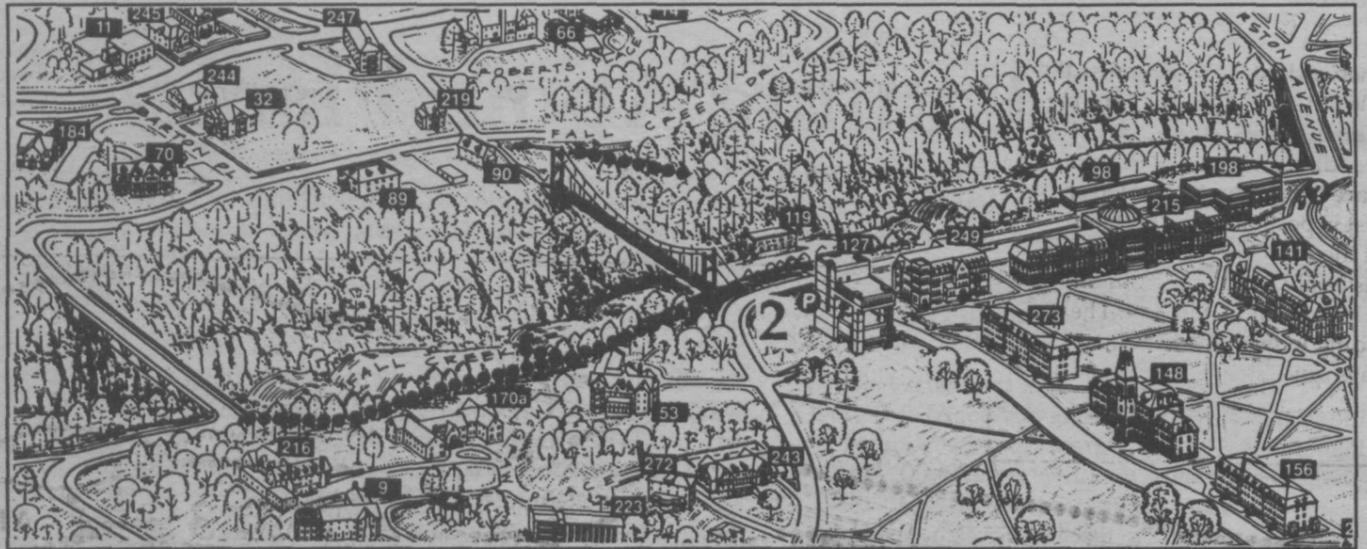
Dense woods, open glades, lake and streamside overlooks, distant vistas. Formal and informal trails wander through hundreds of Plantations' acres. They begin adjacent to campus and stretch to Freese Road in Varna. Certain trails are kept open for cross country skiing in winter. Hikers and joggers press up and down the hills in any kind of weather. A forced march would be necessary to cover the entire distance in one day. It is often necessary to walk along a roadside or across a field to begin the next leg. The map provided below shows suggested starting points and the trails leading from each.

1 The main path around Beebe Lake is a popular commuter route from North Campus and the community of Forest Home to office and classroom. This is the Plantations' woodland most immediately acces-

sible from campus. Lunch hour often finds the lakeshore busy with joggers and walkers. Nature trails branch off here and there inviting leisurely exploration. Of special interest is the new Hemlock Trail leading upstream from Sackett Bridge to an overlook on the west side of the gorge.

2 Hikers can travel along the edge of Fall Creek gorge, entering at the suspension bridge across from the Johnson Art Museum and walking as far as the Stewart Avenue bridge. Near the halfway point, a path descends to water level. Or, after crossing the suspension bridge, they

can follow the trail to a gorge overlook upstream. The Cascadilla gorge trail, unfortunately, remains closed. Community volunteers have helped to clean the trails and waterways and substantial trail renovations have been completed. However, the stairway entrance below College Avenue requires reconstruction. This project is in the design process.



Cyclists enjoy touring Plantations in the brisk, fall weather. Photo: K. Lange

Message from the Director

Dear Friends of Plantations,

In this, our Fall Supplement to the Chronicle, we invite you to discover some of the less-known aspects of Plantations. Besides beautiful gardens and the landscapes of the Newman arboretum, we are responsible for the management of Cornell's natural areas, including the gorges of Fall Creek and Cascadilla Creek and the woodlands around Beebe Lake. As the colors of autumn approach, explore the trails of Plantations. Bring a friend along. And enjoy the natural beauty that renders Cornell special among its Ivy peers.

Sincerely,

Bob Cook

For more information call: (607) 255-3020.

3 An Indian summer afternoon finds joggers and baby strollers crossing paths in the Newman Arboretum. The sunny, cindered walkways wind up and down the slopes, offering secure footing and an aerobic challenge. For some the reward is a rest stop at the F.R. Newman Overlook. From here the view stretches to the west down Fall Creek, past the wildflower garden, and across the hills. This is an excellent vantage point for watching the seasons change.

4 A network of trails crisscross the Mundy Wildflower Garden, winding past different habitats: meadow, pond, woodland. Species of seasonal interest are labeled and an order-of-bloom list is posted on the bulletin board at the Fall Creek entrance. The garden is easily accessible from the parking lot off Caldwell Road. The path leading in from the headquarters area is quite steep.

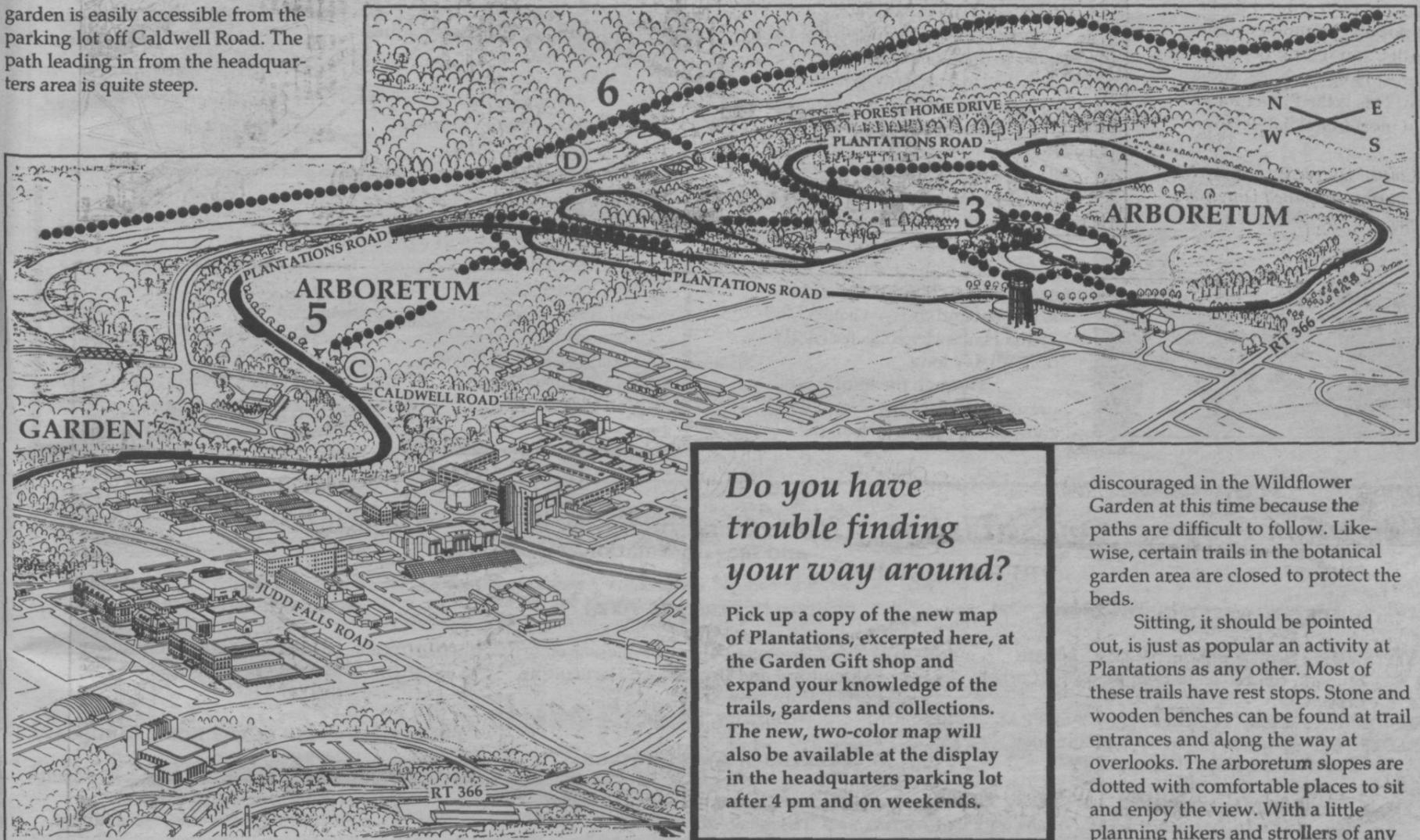
5 Skirting up and down the southern ridge of the Fall Creek valley, a series of woodland trails traverses the arboretum. The hike begins near the concrete parabolic sculpture at the Caldwell Road entrance and ends at the base of the slope in the northeast corner of the Test Gardens area. A mown path leads into the woods southeast of the concrete sculpture. Here hikers will find a trail that leads east through Slim Jim Woods parallel to the meadow. Before the crest of the hill, the trail winds to the left and opens onto the field that is home to the popular, great red oak. Hikers follow the hedgerow past the stone wall and cross Plantations Road. This is the entrance to Mitchell Woods. From

here, Johnston Trail leads down into the woods to the west of the Test Garden. The next trail, Treman Woodland Walk, begins directly across the road. There is a clear opening and a trail which descends through rhododendrons and azaleas to a naturalized planting below. Crossing the road again, one finds the Allen Trail, last in this series. It follows the ridge as a broad open path culminating in an informal stairway into the woods east of the Floriculture Field House, near Forest Home Drive.

6 Informal nature trails run along the north side of Fall Creek from the Village of Forest Home to Freese

Road in Varna. The Cayuga Trail merges with Plantations' trails at the entrance to Johnston Trail, crosses the suspension bridge (6) over Fall Creek upstream from Flat Rocks, and connects with these nature trails, popular with cross country skiers. The trail continues, east, through Plantations' woodlands as far as Freese Road where it continues onto private property. It is possible to hike or ski all the way to Monkey Run on the Cayuga Trail.

When the snow begins to accumulate, Plantations Road in the arboretum is opened to skiers and closed to automobile traffic. Skiers should stay on the road and trails to avoid damaging saplings and other plantings. Traffic of any kind is



Do you have trouble finding your way around?

Pick up a copy of the new map of Plantations, excerpted here, at the Garden Gift shop and expand your knowledge of the trails, gardens and collections. The new, two-color map will also be available at the display in the headquarters parking lot after 4 pm and on weekends.

discouraged in the Wildflower Garden at this time because the paths are difficult to follow. Likewise, certain trails in the botanical garden area are closed to protect the beds.

Sitting, it should be pointed out, is just as popular an activity at Plantations as any other. Most of these trails have rest stops. Stone and wooden benches can be found at trail entrances and along the way at overlooks. The arboretum slopes are dotted with comfortable places to sit and enjoy the view. With a little planning hikers and strollers of any age should enjoy their day.

Natural Areas Survey In Progress

With funds from the Institute of Museum Services, Cornell Plantations is conducting a comprehensive ecological survey of all its natural areas. When completed this information will be available for teaching and research use. Maps showing the distribution of regional vegetation types as described by Professors Charles Mohler and Peter Marks will be accompanied by detailed species lists for the flora as well as other natural history observations. The Campus Bird Study Group have compiled lists of the bird species sighted in each area. Scientists from such diverse disciplines as entomology and geology are also contributing data.

Plantations acquired its first natural area over eighty years ago. Today there are fifteen parcels of land in the Ithaca area with over 1900 acres, including Ringwood Forest, Coy Glen, Mclean and Eames Bogs, and South Hill Swamp. The natural areas are, by definition, fragile habitats valued not only as teaching and research resources, but also for their intrinsic beauty and indigenous species. In order to protect them from irreparable damage, guidelines for their use have been prepared by the committee of

faculty and staff that manages them. Anyone interested in visiting the natural areas should follow these guidelines:

1. Notification of intended use is required. Call Plantations at (607)255-3020.
2. No living or dead organic materials, nor any geological materials are to be removed from the natural areas (no hunting, fishing, trapping or collecting), nor should anything be placed or left in the areas.
3. No snowmobiling nor use of all-terrain or off-road vehicles.
4. No fires, no overnight visits.
5. Stay on trails whenever feasible.

It is the responsibility of members of the Cornell community and the public visiting these lands to help protect them from irresponsible use. Specific permission is required for any exception to the guidelines, including class visits and research use. Visitors are requested to report any observed violations or situations requiring attention to the Plantations' staff by phoning (607)255-3020.



Heather Robinson, Plantations research assistant, and Nancy Ostman, researcher working on the natural areas survey, at Eames Bog. Photo: R. Wesley

Plantations Volunteer News

Plantations volunteers have been busy this summer conducting bus tours, guiding tours of the herb garden, hosting special events, weeding Plantations' various gardens and nurseries, and harvesting flowers for use in educational programs and craft projects.

Volunteers made our August special event, "Foods that Feed the World," possible. The main purpose of this family-oriented education event was to teach children and their parents about the major staple food plants of the world. The event took place in the Agronomy Department's International Crop and Weed Garden where these major crops can all be found growing: corn, wheat, rice,

potatoes, cassava, plantain, barley, yams, sweet potatoes, millet and sorghum.

Six Plantations' volunteers each took on the responsibility of researching one of the major plants, as well as designing an active educational booth. After hours of research, brain-storming meetings, and contact with Cornell professors specializing in these crops, the volunteers created booths that were truly impressive. Visitors could stand next to Ann McAdams' 6 foot pole to get a feeling for the possible size of yam tubers, turn the crank to make barley flour at Irmgard Muller's exhibit, knead wheat flour dough at Joyce Scofield's table, taste plantain at Amy Filken's booth, stand next to the rice paddy with Dianne Strohman and feel like they were in the Orient, or shuck corn to beat the clock at Amy Wheeler's colorful display.

Many other volunteers also contributed to the day's success. Barbara Brown perused the library for children's stories and helped to organize the story tellers. Adrienne Ploss spent hours creating colorful posters and signs. Henrietta Quick and her four children served punch to our hot and thirsty visitors, and Thalia Hathaway collected donations all day long.

Through the information presented at each booth and the enthusiasm with which all the



Proud participant, below left, shows off her map of the world decorated with samples of the crops featured at educational displays like the one shown above. Photos of this event: Ruth Darling, volunteer.

volunteers participated, the day was a success. Visiting children and adults left with a new understanding of the world around us.

Raylene Gardner,
Education Program
and Volunteer Coordinator

Training sessions for volunteers begin at the end of September. Call Raylene at 255-2407 if you would like information on the volunteer program and want to get involved.



Upcoming Special Events:

HAMILTON LECTURE SERIES
"If I were to Make a Garden"
Speaker—Michael Dirr
Department of Horticulture,
University of Georgia
Thursday, October 6, 7 pm.
Room 135 Emerson Hall,
Cornell University
Free

BONSAI DAY
Bonsai Exhibit
Training Demonstrations
Book and Plant Sale
Co-sponsored with Finger Lakes
Bonsai Society
Saturday, October 15, 11am to 3pm.
Cornell Plantations Headquarters
Donation: \$1 Members: Free

Education Program Course Listing:

ADVANCE REGISTRATION REQUIRED. For a free brochure with complete listing and fees information call 255-3020.

MUSHROOM WEEKEND WORKSHOP

INSTRUCTOR: Scott Camazine, M.D., Graduate Student, Neurobiology and Behavior, Cornell University

SESSION: Friday, September 30— 7 to 9 P.M.
FIELDTRIPS: Saturday, October 1 and Sunday, October 2— 9 A.M. to 1 P.M.

WHEAT WEAVING

INSTRUCTOR: Denise Jones, Owner of "Nature's Creations"
WORKSHOPS: Mondays, October 3, 17—7 to 9 P.M.

INTRODUCTION TO BOTANICAL ILLUSTRATION

INSTRUCTOR: Bente King, Botanical Illustrator, Bailey Hortorium, Cornell University
SESSIONS: Wednesdays, October 5, 12, 19, 26, November 2—7 to 9:30 P.M.

FALL INTO PERENNIALS

INSTRUCTORS: Elisabeth Sheldon, Owner of Ridge House Garden; Richard Iversen, Graduate Student, Department of Floriculture and Ornamental Horticulture, Cornell University; Irene Lekstutis, Horticulture Program Assistant, Cornell Cooperative Extension, Tompkins County.
SESSIONS: Wednesdays, October 12, 19, 26 7:30 to 9:30 P.M.

PLANTS IN STILL LIFE

INSTRUCTOR: Bente King, Botanical Illustrator, Bailey Hortorium, Cornell University
SESSIONS: Tuesdays, October 18, 25, November 1, 8—7 to 9:30 P.M.

IKEBANA

INSTRUCTOR: Kazuyo Otani, Floral Designer
SESSIONS: Thursdays, October 20, 27, November 3, 10, 17—6 to 8 P.M.

GROUND COVERS AND VINES

INSTRUCTOR: Dr. Robert Mower, Professor of Floricultural and Ornamental Horticulture, Cornell University

SESSION: Wednesday, November 2—7 to 9 P.M.

WREATHS OF EVERLASTINGS

INSTRUCTOR: Debbie Malone, Floral Designer
SESSION: Thursday, November 3 6:30 to 9:30 P.M.
WORKSHOP: Saturday, November 5 8 A.M. to Noon or 1 to 5 P.M.

CORN ROSE WREATH WORKSHOP

INSTRUCTOR: Carol Howell, Owner of "Nature's Creations"
SESSIONS: Monday and Wednesday, November 7, 9—7 to 9:30 P.M.

BONSAI WORKSHOP

INSTRUCTOR: Bill Valavanis, Director, International Bonsai Arboretum
WORKSHOP: Saturday, November 12 10 A.M. to 4 P.M.

DRAWING PLANTS ON SCRATCHBOARD

INSTRUCTOR: Bente King, Botanical Illustrator, Bailey Hortorium, Cornell University
SESSIONS: Tuesdays, November 15, 22, 29 7 to 9:30 P.M.

HARVEST HOME ARRANGEMENT

INSTRUCTOR: Linda Kabelac, Floral Designer
WORKSHOP: Monday, November 21 6:30 to 9 P.M.

PINE CONE WREATHS

INSTRUCTOR: Marge Bitzar, Floral Designer and owner of "Tussy Mussy"
SESSION: Wednesday, December 7 7 to 9 P.M.
WORKSHOP: Saturday, December 10 8 A.M. to Noon or 1 to 5 P.M.

HOLIDAY CENTERPIECE

INSTRUCTOR: Linda Kabelac, Floral Designer
WORKSHOP: Monday, December 12 6:30 to 9 P.M.

PROBLEM SOLVING IN THE HOME LANDSCAPE

INSTRUCTORS: Marvin Adleman, Professor of Landscape Architecture, Department of Floriculture and Ornamental Horticulture, Cornell University; Rick Bogusch, Landscape Architect, Cornell Plantations
SESSIONS: Wednesdays, January 11, 18 7:30 to 9:30 P.M.

WINTER TREE ID

INSTRUCTORS: Irene Lekstutis, Horticulture Program Assistant, Cornell Cooperative Extension, Tompkins County; Raylene Gardner, Education Coordinator, Cornell Plantations
SESSION: Sunday, February 12 1 to 4:30 P.M.

SWEET ANNIE HEART

INSTRUCTOR: Debbie Malone, Floral Designer and owner of "Everlastings"
SESSION: Tuesday, February 7 6:30 to 9:30 P.M.

BLACK ASH SPLINT BASKET WORKSHOP

INSTRUCTOR: Jonathan Kline, Black Ash Basket Maker
SESSION: Friday, March 10 7 to 9 P.M.
WORKSHOP: Saturday, March 11 and Sunday, March 12

PRUNING FRUIT TREES

INSTRUCTOR: Dr. Warren Styles, Professor of Pomology, Cornell University; Monika Crispin, Agriculture Program Leader, Cornell Cooperative Extension, Tompkins County
SESSION: Saturday, March 12 9:30 A.M. to Noon