

# Cornell CHRONICLE

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you were  
away...**



Jill Peltzman

**WHAT'S NEW** -- School of Hotel Administration faculty and staff celebrate their return to Statler Hall at a reception on Aug. 29 in the foyer and auditorium. They had worked out of Sage Hall for the past year, while classrooms, laboratories and offices were remodeled to accommodate the school's new curriculum. Hotel School Dean John J. Clark Jr. also welcomed students to the remodeled Statler at this semester's first weekly "Cookies with Clark" forum and a reception on Aug. 26. Today Clark honored Hans P. Welshaupt, new managing director of the Statler Hotel and J. Willard Marriott Executive Education Center, at a reception in Helen Newman Lounge.

## Raises expected shortly for state-paid employees

Some 2,900 employees of Cornell's state-supported colleges should start seeing larger paychecks in October following the state legislature's approval last week of a three-year salary increase package.

Gov. Cuomo was likely to sign the legislation this week, according to Nathan Fawcett, Cornell's director of statutory college affairs, but the increases cannot begin until they are ratified by the Board of Trustees of the State University of New York, which is scheduled to meet on Sept. 28.

The plan, affecting 1,468 faculty and professional staff and 1,435 clerical and technical employees, is keyed to a salary agreement negotiated between the State of New York and its employee unions, according to Malden C. Nesheim, Cornell's vice president for planning and budgeting.

"We're sorry about the delay in Albany, but everyone has been working hard and fast in recent weeks," Nesheim said. "The

crush of budget business may be partly responsible for the legislative delay, requiring partial payment retroactively. But the terms themselves were not affected by the difficult legislative year; the agreement is consistent with the salary pools for other Cornell employees."

For both groups of employees, there will be a pool to increase base salaries by 5 percent the first and second years and 5.5 percent the third year -- excluding some additional performance and merit payments.

Increases for years two and three will begin with the start of the salary year -- July 1 for faculty and professional staff and April 1 for others. For the first year, the increase is being phased in so that the year's gross pay increase will actually come to about 4 percent, although the full 5 percent will be added to the salary base for the year.

Fawcett said such phasing in has  
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## New Theory Center facility praised at public hearing

The new building proposed to house engineering faculty and Cornell's national supercomputer center drew praise from city officials and civic leaders at a public hearing on Aug. 25.

The hearing was part of a legally required review process by the New York State Urban Development Corporation (UDC), which is contributing \$10 million in grants and loans toward the \$30 million building. Cornell is raising the rest from donations.

A final decision on UDC funding will be made at the corporation's Sept. 17 board of directors meeting, according to UDC project director Carol Hsu.

The new seven-story building will consist of one blocklike segment, containing computer and seminar rooms, attached to a slim, curved segment containing offices. The curved segment parallels Campus Road. The building, rising 120 feet at the east end and 134 feet at the west end, will come to within 30 feet of the gorge at its closest point.

Groundbreaking is planned for this fall; completion, in early 1990.

During the hearing held at the Ramada Inn downtown, Susan Blumenthal, chairman of the city planning and development board, called the building "a

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## Bell researcher to head National Nanofabrication Facility

Harold G. Craighead, a technical manager with Bell Communications Research, has been named director of Cornell's National Nanofabrication Facility (NNF), the country's premier national laboratory for the construction of supersmall devices for research.

Craighead, whose wide-ranging research has included solid-state physics, semiconductors and materials, also has been named a professor of applied and engineering physics.

"I am confident that Harold possesses both the energy and the vision to keep the NNF a leader in the field," said Joseph Ballantyne, vice president for research and advanced studies, who announced the appointment. "He has been very prolific in conducting innovative research on the fabrication and physics of small structures. He also has a very broad view of the science that relates to the NNF's mission and will be effective in collaborating with a wide range of university, industry and government users."

Craighead will assume the post in

January, taking over from the current director, Edward D. Wolf, a professor of electrical engineering who will return to research and teaching. Wolf came to Cornell in 1978 from Hughes Research Laboratories to assume the directorship of what was then called the National Research and Resource Facility for Submicron Structures.

"Ed Wolf's extraordinary record of leadership over his decade as director is a key reason for the ascendancy of the NNF as a major national center," Ballantyne said. "Those who have depended on the facility's excellence for their advances in science and technology owe him a substantial debt. His continued involvement in the facility as a researcher will be an important element in the future success of its programs."

According to Craighead, "Cornell's National Nanofabrication Facility is a unique and successful center for research in the exciting and important area of ultrasmall dimensions. The studies by NNF users exploiting these dimensions have shown the

exciting possibilities for new physical insights and applications.

"As a researcher in this critical area since graduating from Cornell, I especially look forward to continuing the NNF's extraordinary record of progress."

Heading the search committee for the new director was John Nation, professor and director of the School of Electrical Engineering.

Craighead received his B.S. degree in physics from the University of Maryland and his M.S. and Ph.D. in physics here. He joined the staff of Bell Laboratories in 1979, and after the dissolution of the Bell System, transferred to the new Bell Communications Research in 1984. There, he became district manager in the Solid State Science and Technology Laboratory.

His research has included studies of the optical properties of gallium arsenide semiconductors, high-energy electron beam lithography, compound semiconductor processing, electron microscopy and optical properties of thin films. He has published more than 70 papers in his field and holds

four patents for his research. He is a member of the American Vacuum Society, the American Physical Society and the Optical Society of America.

The NNF, founded in 1977, is supported by the National Science Foundation, industrial affiliates and Cornell. The NNF is the only research center of its kind where visiting scientists from universities, industry and government can build supersmall devices for experiments in physics and biology, and for future generations of computers.

Housed in special clean space in Knight Laboratory, the facility consists of some 30 machines for building, testing and visualizing tiny structures, along with 25 staff members expert in their use and 60 affiliated faculty in 14 academic departments.

Last year, the NNF hosted more than 100 research projects, from studies of how blood cells squeeze out of bone marrow to development of the world's fastest transistor.

-- Dennis Meredith

## Notables

Historian **Richard Polenberg's** latest book, "Fighting Faiths: The Abrams Case, The Supreme Court and Free Speech," has won a 1988 Silver Gavel Award from the American Bar Association in the category of books.

The Silver Gavel is the highest award given by the ABA in its annual media awards program, according to an ABA announcement. The awards are presented for "outstanding public service in increasing public understanding of the American legal system." Polenberg's book tells for the first time the stories of the people involved in this country's leading free-speech case, *Abrams v. United States*. Polenberg is the Goldwin Smith Professor of American History.

Three scientists at the New York State Agricultural Experiment Station at Geneva were honored Aug. 8 during the annual meetings of the American Society of Horticultural Science in East Lansing, Mich. **Michael H. Dickson** was named a fellow of the society, one of six scientist in North America to be so honored this year. A vegetable crop breeder, Dickson joined the Geneva Station in 1964. His research has led to improvements in the important New York State crops of snap beans and crucifers, for example, cabbage, broccoli, brussels sprouts and cauliflower. **Robert C. Lamb** and **Norman F. Weeden** were cited for their research paper, "Genetics and Linkage Analysis of 19 Isozyme Loci in Apple." The paper was one of four selected as the most outstanding agricultural papers published by ASHS journals during the past year.

As one of eight recipients of 1988 U.S. CIBA-GEIGY Recognition Awards, entomologist **Chris F. Wilkinson**, professor of insecticide chemistry and toxicology, spent a week in Switzerland during July as a guest of the international chemical firm CIBA-GEIGY Corp. The corporation is headquartered in Basel. Wilkinson is a specialist on the comparative biochemistry of the metabolism of toxicants in insects and mammals. His most recent work has been in the area of risk assessment of pesticides in animals and humans and in the development of regulatory policy. He holds degrees from the University of Reading, England, and the University of California at Riverside. Wilkinson has been a member of the faculty since 1966.

## Calendar entries due 10 days before publication

Submissions for the Chronicle calendar are due 10 days prior to publication. Please save money by using campus mail.

## 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.

## Professor-at-large lectures start with child psychiatrist

British child psychiatrist Dr. Michael L. Rutter will give a public lecture on "Pathways from Childhood to Adult Life: Processes Involved in Psychological Development" at 7:30 p.m. on Sept. 8 as part of his visit as an Andrew D. White Professor-at-Large.

His lecture will be held in Hollis E. Cornell Auditorium in Goldwin Smith Hall.

Rutter will be the first of eight scholars to visit Cornell during the fall semester as a professor-at-large. The professors-at-large program began in 1965 to bring scholars of international distinction to the university for several weeks of interaction with faculty and students. Professors-at-large are named for a six-year term.

Rutter, a professor of child psychiatry at the University of London's Institute of Psychiatry, will be on campus Sept. 4 to 13. He is known for his work on autism in

children, maternal deprivation, institutional care, day care, and the influence of schools and communities on children's development.

Last year he was elected a fellow of the Royal Society, becoming the first psychiatrist elected to that scholarly organization in this century, according to Professor Henry N. Ricciuti.

In addition to his public lecture, Rutter he will lead a colloquium on "Adult Outcomes of Institutionally Reared Children" at 4 p.m. on Sept. 7 in Room N207 in Van Rensselaer Hall.

In addition to Rutter, other professors-at-large visiting this fall will be biologist Sir Richard Southwood, classicist Sir Kenneth Dover, zoologist Rudiger Wehner, philosopher Jacques Derrida, historian John Heilbron, biologist Harold Woolhouse and civil engineer David Billington.

## Deputy U.S. secretary of labor to address Sept. 5 convocation

Dennis E. Whitfield, deputy U.S. secretary of labor, will address Cornell's annual Labor Day Convocation at 11 a.m. on Sept. 5.

The event, which is being arranged by students of the School of Industrial and Labor Relations, will be held in the school's Conference Center quadrangle. If it rains, Whitfield will speak in Ives Hall. His address is open to the public.

Whitfield's visit was arranged by James Kumpel, who received the 1986-1987 Irving M. Ives award for outstanding achievement as a freshman in ILR. This summer Kumpel spent 10 weeks on Capitol Hill as the ILR School's 26th annual Clem Miller Scholar, an internship named for a former California congressman.

While in Washington, Kumpel met Whitfield and invited him to Cornell. Kumpel, who lives in West Hempstead, Long Island, is vice president of the ILR School's student government and treasurer of the Asian American Coalition.

President Reagan appointed Whitfield to the number two position in the Labor Department in 1985. Previously he was chief of staff to the U.S. trade representative and special assistant to the secretary of agriculture.

He received a bachelor's degree in journalism from the University of Georgia in 1971. Before going to Washington, he was vice chairman of the Georgia State Republican Party.

-- Albert E. Kaff

## Obituary

Philosopher **Max Black**, world-recognized authority on the philosophy of language, on logic, and on the philosophy of mathematics and science, died Aug. 27 at Tompkins Community Hospital of heart complications. He was 79 and a member of the faculty since 1946. Black's writings included "The Labyrinth of Language," one of 12 book-length articles in *Britannica Perspectives*, a three-volume work published in 1968 by Encyclopaedia Britannica Inc. The articles were designed to provide an overview of world knowledge in celebration of the 200th anniversary of the encyclopedia.

Black was instrumental in founding two internationally oriented scholarly organizations at Cornell: The Society for the Humanities, which he directed from its establishment in 1965 to 1971, and the Program for Andrew D. White Professors-at-Large, which he headed from its establishment in 1965 until 1978.

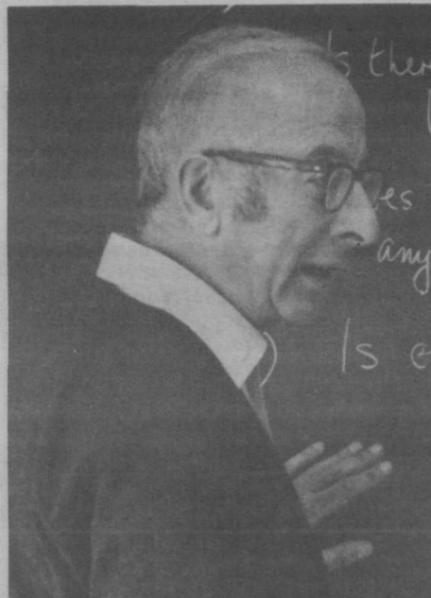
He was named the Susan Linn Sage Professor of Philosophy and Humane Letters in 1954, a title which he held as an emeritus professor upon his retirement in 1977. He was a senior member of the Program on Science, Technology and Society from 1971 until his death.

Black's first book, "The Nature of Mathematics," published in 1933, is a standard work still in print. His more than 200 published works include 10 original books, with the most recent being "The Prevalence of Humbug and Other Essays," published in 1983. Other books include "A Companion to Wittgenstein's Tractatus," "Models and Metaphors," and "Critical Thinking." His works have been translated into French, German, Italian, Spanish, Hebrew, Japanese and Greek.

A forthcoming book of essays, titled "Perplexities," is scheduled for publication by Cornell University Press.

Black was born Feb. 24, 1909, in Baku, Russia, was educated in England, came to this country in 1940 and became a naturalized citizen in 1948.

He received a bachelor of arts degree in 1930 from Queens College, University of Cambridge, and also received a doctorate in



Max Black

philosophy in 1939 and a doctorate in literature in 1955 from the University of London. He taught at the University of London from 1936 to 1940 and at the University of Illinois from 1940 to 1946.

He served as president of the International Institute of Philosophy in 1981-84 as one of only two Americans elected president of the Paris-based organization with a fixed membership of about 100. Black also was president of the Eastern Division of the American Philosophical Association in 1958.

No services were held at his request. Survivors include a daughter Naomi Black of Toronto; a son Jonathan Black of King of Prussia, Pa.; five grandchildren and two great grandchildren.

Memorial donations may be made to the Michal Black Endowment Fund, which Black established this summer at Tompkins Cortland Community College in honor of his late wife. Proceeds from the fund provide annual grants for women students in financial need.

## Briefs

■ **New chairman named:** David B. Lewis, a specialist on development in Africa -- particularly Kenya -- has been named chairman of the Department of City and Regional Planning for a three-year term ending June 30, 1991.

Lewis, an associate professor in the College of Architecture, Art and Planning, succeeds William W. Goldsmith, department chairman since 1983. In addition to his new duties as chairman, Lewis will continue as director of Cornell's Institute for African Development, a post he has filled since the institute's establishment in 1986.

■ **Buffalo media art:** The work of three Buffalo-based video and filmmakers will be exhibited at the Herbert F. Johnson Museum of Art from Sept. 9 through Nov. 12. The artists -- Tony Conrad, Barbara Lattanzi and Julie Zando -- are representative of the "major role Buffalo has played in the world of media art for over two decades," according to Richard Herskowitz, director of Cornell Cinema and adjunct curator of film and media at the museum. Herskowitz organized the show titled "Media Buff" as part of a series on new work by New York State artists.

■ **Writing course:** A new three-credit course aimed at improving the practical writing skills of working adults is being offered from 4:30 to 7 p.m. on Tuesdays Sept. 6 through Dec. 6. According to the course instructor, Jennie Farley, associate professor of extension and public service at the ILR School, "The course will emphasize the kind of writing done at work, including reports, business letters, memoranda and minutes of meetings." The course is titled ILR 452, Writing in Industrial and Labor Relations. For details, including tuition charges, contact Cathy J. Mooney, course coordinator, Room 101 of the ILR Conference Center, between 8:30 a.m. and 4:30 p.m. Monday through Friday. Telephone: 255-4423.

■ **Bloodmobile hours:** The Red Cross Bloodmobile will be at Willard Straight Hall Sept. 7 and 8. For appointments between 10 a.m. and 1 p.m. call 257-7587. Walk-ins will be welcome between 1 and 3:45 p.m. The Community Donor Program is held every Thursday from 2:30 to 5:30 p.m. at the Henry St. John Building in downtown Ithaca. Appointments are preferred and may be made by calling 273-1900.

■ **Folk guitar lessons:** Eight one-hour weekly group folk guitar lessons will begin Sept. 5 in the North Room of Willard Straight Hall. Open to the general public, the course given by Phil Shapiro costs \$30, payable at the first session which will also include registration. There will be a course for beginners starting at 7:30 p.m. and a course for intermediates starting at 8:30 p.m. For more information call Shapiro at 844-4535.

■ **Classes without exams:** The Experimental College offers non-credit leisure courses in artistry, body awareness, culinary arts, music performance, self reliance and other special interests. Courses, which are usually conducted twice a week in the evening or late afternoon, will be held Sept. 26 through Dec. 3. Fees range from \$10 to \$70 per course. A course brochure and registration details are available at the Willard Straight Hall Desk or Room 538 Willard Straight and by calling 255-9612.

■ **Hepatitis diagnosed:** A single case of Hepatitis A was diagnosed at Gannett Health Center last week, according to Dr. Leslie Elkind, director of University Health Services. Gannett Health Center staff have contacted and treated persons who may have been exposed through close contact with the student, whom Elkind said is beyond the infectious stage.

In most cases, Hepatitis A is a relatively benign, self-limited illness, and Elkind said there is no reason to expect additional cases, because no food handling or other problematic situations were involved in this single case.

Employees and students who have questions regarding communicable diseases and other health issues can contact Gannett Health Center.

# In a debate, it's Dukakis over Bush, expert predicts

In a campaign debate, a Cornell speech expert would give a slight edge to Michael Dukakis over George Bush. But not by much.

"Neither one of them is a great speaker, but I think that Dukakis is slightly ahead," said Fred Antil, a member of the board of governors of the International Platform Association, an organization dedicated to public speaking.

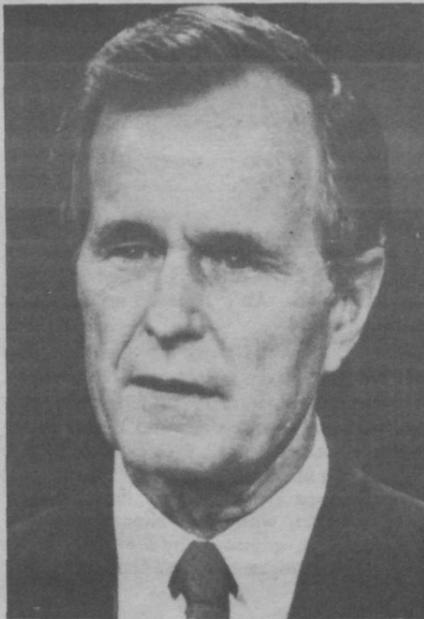
"Dukakis demonstrates some dry humor in his speeches, and he is better at throw-away lines," Antil said. "Bush has the Nixon syndrome. He seems to be ill at ease on the platform."

Antil coaches members of Cornell's administrative staff, particularly fund raisers, on public speaking. He is director of corporate relations and placement in the School of Hotel Administration.

"In a debate, I believe that Dukakis would have an advantage," Antil said. "Dukakis seems to be more comfortable in answering questions. As governor of Massachusetts, he's had considerable experience in dealing with questions from the press."

"Bush has not had that same experience in handling tough, hard questions. As vice president, he has not been that much exposed to the press. And in some of his other positions such as director of the CIA [Central Intelligence Agency], he certainly wasn't giving many news conferences."

Antil emphasized that he based his analysis of the two presidential candidates on their television performances. He's never heard them speak in person. As master of ceremonies at the annual convention of the International Platform Association in Washington in July, Antil introduced several speakers including Rep.



Representatives of presidential candidates Gov. Michael Dukakis, left, and Vice President George Bush met this week to discuss the timing of their debates.

Claude Pepper, Forbes magazine editor Malcolm Forbes Jr. and Cable News Network Washington anchor Bernard Shaw.

Antil said a good speech should last no more than 20 to 25 minutes and should "inspire, entertain, persuade and inform."

"The weakness of Dukakis is that he only tries to inform his audiences, but he comes off sounding like a technocrat," the speech coach said. "Bush is somewhat the same, a technocrat. Bush has some awkward gestures. When he smiles, the

smile looks as if it came out of a frown.

"Inspiration is not Dukakis' style. He's too cool. He hasn't hit a theme that he's comfortable with, except that he has found one theme in his immigrant background, and he uses it effectively. He has the advantage of being bilingual, switching easily into Spanish, and that's very effective."

"Bush's attempts to inspire just don't come off. I get the feeling that Bush takes a somewhat superficial cut at issues rather than a real sound attempt to persuade his

audiences. Bush says he favors capital punishment, but he sounds superficial in presenting his case. Dukakis seems to go more into depth on the issues although often only in generalities. The most difficult type of speech to deliver is one that entertains. Both of this year's presidential candidates are good at using humor at their own expense."

Based on past presidential campaigns, Antil expects Bush and Dukakis to improve their speaking performances between now and the election.

"A good indicator was the Republican Convention," Antil explained. "Bush gave the best speech of his life in New Orleans. He did what he had to do. People do better by speaking and getting feedback, and they will do a lot of both before the end of the campaign. In the early days of his political career, John Kennedy was deadly dull as a speaker. But before he finished, Kennedy looked like he was having fun on the platform just as Jesse Jackson does."

In Washington, Antil asked Pepper to name the best public speaker he has heard since he first was elected to Congress in 1936. Over the years, Pepper met Winston Churchill, Charles DeGaulle, Adolf Hitler, Joseph Stalin and all U.S. presidents since the 1930s.

"Pepper told me that, without a doubt, the best public speaker he had ever heard was Franklin D. Roosevelt. Pepper went on to say that it was uncanny the way Roosevelt could get close to the people even though he was an aristocrat. Today they are knocking Bush as being a blue blood, but the voice of FDR probably sounded far more aristocratic than Bush's voice."

-- Albert E. Kaff

## ILR School pledges increased efforts to save jobs in N.Y.

The School of Industrial and Labor Relations will increase its efforts to save jobs in New York State, Dean David B. Lipsky said yesterday in an address before the convention of the New York State American Federation of Labor-Congress of Industrial Organizations (AFL-CIO).

Lipsky, whose grandfather helped organize a steel mill, said the labor movement requires new directions because of technological advances in industry and a changing labor force with more immigrants and better-educated workers.

The dean told AFL-CIO members gathered at Kiamesha Lake, N.Y., that the ILR School will "provide trade unions throughout the state with the training, skills and techniques needed to manage" changes taking place in labor-management relations.

"We'll be doing a lot more to save jobs in New York State, working through our Program for Employment and Workplace Systems [PEWS] and other programs," Lipsky said.

Cornell's PEWS program provides consulting services to companies and their unions on how workers can be retained when a company modernizes its operations.

Scholars and practitioners "from both labor and management believe that a historic transformation is taking place on an international scale. Increasingly, the domestic industrial relations scene is being influenced by international trends," he said.

In his remarks, Lipsky also said that the trade union movement in New York State is one of the healthiest in the world.

"With all that is heard about the decline of the labor movement in some regions of the country, New York State continues to boast one of the healthiest and most vibrant trade union movements anywhere in the world," the dean said.

Lipsky also said the School of Industrial and Labor Relations is improving its academic programs in a number of areas, including labor relations, collective bargaining, international industrial relations, negotiations and conflict resolution, and study of minority and immigrant workers.

He said that 25 percent of the undergraduates on the school's Cornell campus are minority students and half of the students are women.

"Demand for our students from companies, unions and government agencies is at an all-time high," he said.

-- Albert E. Kaff

## Test shows Brazil nuts safe source of selenium

Brazil nuts could be a convenient source of selenium, an element essential to human health in small doses but poisonous in high concentrations, Cornell toxicologists have learned by eating six nuts a day for weeks on end.

Writing in the July 1988 issue of the journal *Nutrition Reports International*, researchers from Cornell's Toxic Chemicals Laboratory, Department of Pomology and Gannett Health Center report that selenium levels in blood can be increased by between 100 and 350 percent by adding a half dozen Brazil nuts to the daily diet.

"When you eat Brazil nuts, selenium shows up in your blood immediately. It's very responsive," said Donald J. Lisk, professor of toxicology, director of the Toxic Chemicals Laboratory and one of the experiment's volunteers.

"People with selenium deficiencies could consume a few Brazil nuts a day -- under the care of a physician, of course -- and build up their levels of selenium. While selenium in very high levels is toxic to humans, unless you gorge on Brazil nuts you probably aren't getting too much in the normal diet," Lisk said.

A selenium level of 0.1 to 0.2 ppm (parts per million) in the diet is generally considered adequate for humans and has been shown to prevent several types of cancer. It also counteracts the toxic effects of heavy metals such as lead, cadmium and mercury.

Less than 0.05 ppm is considered deficient, and deficiency has been linked to the heart ailment Keshan's disease in China, where large areas have low selenium levels in the soil.

Five parts per million or more of selenium in human diets is toxic and can cause liver damage, according to Lisk.

The federal government does not make an RDA (recommended daily allowance) for selenium, and selenium supplements are legally permitted only in farm animal rations and by prescription to humans.

Common dietary sources include

organ meats such as liver and kidneys, fish, grains, eggs and dairy products. In Brazil nuts, the selenium comes from the soil the trees grow in.

The level of selenium in Brazil nuts was discovered in an earlier study of tree nuts by Cornell scientists. Neutron activation tests for 46 elements in 12 kinds of nuts found surprisingly high levels of selenium and barium in Brazil nuts.

"Whereas most nuts contained less than 0.1 ppm of selenium and 1 to 50 ppm of barium, Brazil nuts may contain up to 250 ppm of selenium and 6,000 ppm of barium," Lisk said. Those two elements come from soil in the Amazon region of Brazil where most of the world's Brazil nuts are grown, he noted. The selenium originates in geological formations in the foothills of the Andes mountains.

In a parallel test of barium, which accumulates in the bones and other organs, laboratory rats were fed a diet of 25 percent Brazil nuts for 29 days, in cooperation with Gilbert S. Stoewsand, a professor of food science and technology at Cornell's Agricultural Experiment Station at Geneva, N.Y. Their bones were found to contain 28 times as much barium as the bones of rats without Brazil nuts in their diet.

The barium studies were conducted on rats, rather than humans, because of the need to perform biopsy analysis of bone. An account of the barium study appeared in the August 1988 issue of *Nutritional Reports International*.

More than 200 medical studies have demonstrated that selenium protects against some forms of cancer and counteracts the toxicity of some heavy metals, Lisk said.

"We don't know much about the mechanism of selenium's anti-carcinogenicity except that the effect can only be shown in the experimental animal studies if the selenium is fed concurrently with the carcinogen, not afterwards," he said.

"That behooves us to keep selenium levels up, to get protection throughout our lifetimes."

-- Roger Segelken

## Economic crises' effects on families to be discussed

When a manufacturing plant is moved from an industrialized to a developing nation to reduce labor costs, family households in both nations are affected.

Jobs are lost, children or spouses move away to seek new opportunities, or a relative dismissed from a job returns home.

Or, when the rate of interest in New York City banks goes up, it has repercussions over wide sectors of the population in countries with high levels of foreign debt.

To explore family problems created by economic crises, scholars and researchers from several nations will meet here on Sept. 2 through 5 to present and discuss papers on the topic, "Economic Crises, Household Survival Strategies and Women's Work."

Participants will come from universities and social organizations in the United States, Britain, Malaysia, Italy, Peru, Tanzania, the West Indies and Nicaragua.

They will discuss women and family problems related to the economies of Southeast Asia, Bangladesh, South Africa and other African nations, Peru, the Caribbean, India, Nicaragua and the United States.

"Households are deeply affected by disruptions in national and international economic systems," said Lourdes Beneria, director of Cornell's Program on International Development and Women and a professor in the department of city and regional planning.

"Debt problems in Third World nations create domestic economic problems which often result in the reduction of job opportunities and the earnings of ordinary households," Beneria said.

"In Latin America, adjustment policies dealing with the debt have generated severe drops in the standard of living of the poor and have also affected the middle class."

Industrialized countries also have their share of economic problems. In Western Europe, unemployment in some nations has climbed to between 10 and 15 percent because of factory relocations and structural economic changes. In Spain, for example, unemployment has reached 20 percent.

Beneria, who is an economist, was born in Catalonia, Spain.

She joined the Cornell faculty from Rutgers University two years ago to become the first director of Cornell's academic and research program on international development and women.

-- Albert E. Kaff

# CALENDAR

All items for the calendar should be submitted (typewritten, double spaced) by campus mail, U.S. mail or in person to Chronicle Calendar, Cornell News Service, Village Green, 640 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 otherwise.

Sept. 4 is the second in a series of Sunday nights when instruction will acquaint newcomers with international folkdancing, 7:30-8:30 p.m., North Room, Willard Straight Hall. Requests 8:30-10:30 p.m. 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. Polestkie, Arnold Singer, Kay Walking Stick, Jack L. Squier, W. Stanley Taft, Sept. 6 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.

Children's Workshops in conjunction with the exhibition "Knots and Nets," for ages 7 through 10 will explore knitting and netting techniques, Sept. 17 and 24. Children ages 7 and 8 will meet from 10 a.m.-noon, and ages 9 and 10 will be held 1-3 p.m. Advance registration required by Sept. 9, and a fee of \$10 will be charged. To register call the education department at 255-6464.

Box lunch tour of "Knots and Nets," led by Penny Dietrich, coordinator of education, Sept. 8, noon. No preregistration is necessary.

"Media Buff.: Media Art of Buffalo, N.Y.," the eighth part in a series of exhibits by York State artists, is devoted to contemporary video and films from Buffalo, N.Y. It was organized by Richard Herskowitz, adjunct curator of film and video at the Johnson Museum, and runs Sept. 10 through Nov. 12.

## FILMS

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

### Thursday, 9/1

"Blood of the Condor" (1969), directed by Jorge Sanjines, with Marcelino Yanahuaya and Benedicta Huanca, co-sponsored by CUSLAR, 8 p.m., Anabel Taylor.

"Knife in the Water" (1964), directed by Roman Polanski, with Leon Niemczyk and Jolanta Umecka, sponsored by the Arts College Pentangle Program, 8 p.m., Uris.

### Friday, 9/2

"Au Revoir Les Enfants" (1987), directed by Louis Malle, with Gaspard Manesse, Raphael Fetjo and Francine Racette, 6:30 p.m., Uris.\*

"It Happened One Night" (1934), directed by Frank Capra, with Clark Gable and Claudette Colbert, 8 p.m., Anabel Taylor.\*

"Apocalypse Now" (1979), directed by Francis Coppola, with Martin Sheen, Marlon Brando and Dennis Hopper, 9 p.m., Uris.\*

"Riders of the Storm" (1988), directed by Maurice Phillips, with Dennis Hopper and Michael Pollard, midnight, Uris.\*

### Saturday, 9/3

"Au Revoir Les Enfants," 6:30 p.m., Uris.\*

"Apocalypse Now," 9 p.m., Uris.\*

"Riders of the Storm," midnight, Uris.\*

"Desperately Seeking Susan" (1985), directed by Susan Seidelman, with Madonna and Rosanna Arquette, 7:30 p.m. and 9:45 p.m., Anabel Taylor.\*

### Sunday, 9/4

"Au Revoir Les Enfants," 4:30 p.m., Uris.\*

"Rebel Without a Cause" (1955), directed by Nicholas Ray, with James Dean, Natalie Wood and Jim Backus, 8 p.m., Uris.\*

### Monday, 9/5

"Blue Velvet" (1986), directed by David Lynch, with Kyle MacLachlan, Isabella Rossellini and Dennis Hopper, 8 p.m., Uris.\*

### Tuesday, 9/6

"Singing the Blues in Red" (1986), directed by Ken Loach, with Gerulf Pannach and Fabienne Babe, 8 p.m., Uris.\*

"The Third China," and "Singapore: Crossroads of the Orient," Southeast Asia Program, 4:30 p.m., 310 Uris Library.

### Wednesday, 9/7

"Cries and Whispers" (1972), directed by Ingmar Bergman, with Liv Ullman, Ingrid Thulin and Harriet Anderson, 8 p.m., Uris.\*

### Thursday, 9/8

"The Promised Land" (1973), directed by Miguel Littin, with Nelson Villagra and Marcelo Gaete, sponsored by Pentangle, 8 p.m., Uris.

"Chile, I Don't Take Your Name in Vain" (1984), directed by Cine-Ojo Collective, sponsored by Pentangle, 8 p.m., Anabel Taylor.

## LECTURES

### Astronomy

"The IRAS Bright Galaxy Survey," Tom Soifer, Caltech, Sept. 1, 4:30 p.m., 105 Space Sciences.

"On the Formation and Internal Dynamics of Clumpy Magnetic Cloud Complexes," Bruce Elmegreen, IBM, Thomas J. Watson Research Center, Sept. 8, 4:30 p.m., 105 Space Sciences.

### History & Philosophy of Science & Technology

"Greater Germany, Cultural Imperialism and the Myth of the German Atomic Bomb,"



"Au Revoir les Enfants (Goodbye, Children)," Louis Malle's movie based on his experiences at a French Catholic boarding school during World War II, will be shown by Cornell Cinema on Friday and Saturday. Check the listings for details.

Mark Walker, history, Union College, Sept. 1, 4:30 p.m., 366 McGraw Hall.

### Music

"Religion, Politics and 'Ancient Music' in 18th-Century England," William Weber, history, California State University, Long Beach, Sept. 7, 4 p.m., Lincoln Hall.

### Southeast Asia Program

"Modern Toba (Batak) Expensive 'Mausoleums'," Budi Susanto, SEAP grad, anthropology, Sept. 8, 12:20 p.m., 102 West Ave. Ext.

### University Lectures

"Mentalite and the 'Musical Canon' in Eighteenth-Century France and England," William Weber, history, California State University, Long Beach, co-sponsored by the Department of Music, Sept. 6, 4:30 p.m., Hollis Cornell Auditorium, Goldwin Smith Hall.

## MUSIC

### Bound for Glory

Martin and Jessica Radcliffe Simpson, English guitar and vocals, will perform three live sets in the Commons Coffeehouse, 8:30 p.m., 9:30 p.m., and 11:30 p.m. on Sept. 4. Bound for Glory can be heard from 8 to 11 p.m. on WVBR-FM93.

### Department of Music



### William Ransom

Pianist William Ransom, pianist-in-residence and head of the Piano Division at Emory University, Atlanta, Sept. 3, 8:15 p.m., Barnes Hall. The concert will include Clementi's Sonata in F-sharp, Op. 26; Chopin's Ballade No. 1 and No. 3; Beethoven's Sonata in C, Op. 53 ("Waldstein"); Janacek's October 1st, 1905 (sonata); and Liszt's "La Campanella."

Cornell Wind Ensemble, conducted by Marice Stith, in an afternoon concert, part of "Fun in the Sun" on the Arts Quad, Sept. 3.

The Intanyer Trio (a brother and two sisters) Chui-Tan Lee, violin, Chui-Yee Lee, cello and Chui-Inn, piano, Sept. 2, 8:15 p.m., Barnes Hall. The program will include Tchaikovsky's "Pezzo Capriccioso," Op. 62; Chopin's "Polonaise Brillante;" Schubert's Impromptu in G-flat Major; Balakirev's "Islamey," "Fantasie Orientale," Ysaye's Sonata No. 3 for Solo Violin; Brahms' "Two Hungarian Dances;" and Mendelssohn's Trio in D Minor, Op. 49.

## RELIGION

### Sage Chapel

John Taylor, Unitarian-Universalist chaplain, will deliver the sermon at Sage Chapel on Sept. 4. Services begin at 11 a.m. "The Music of the Night" will be Taylor's topic. Music will be 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

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 Ave.

### 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 Tuesday, 7:30 p.m., Anabel Taylor Chapel.

Continued on page 5

# CALENDAR

Continued from page 4

## 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

## Applied Mathematics

"The Role of Aggregation in HIV/AIDS Modelling," Stephen Blythe, University of Strathclyde, Scotland, Sept. 2, 4 p.m., 322 Sage Hall.

## Biochemistry, Molecular and Cell Biology

"Cytoplasmic Localization in Early Embryos of the Hematode *C. elegans*," Ken Kemphues, Section of Genetics and Development, Sept. 2, 4:30 p.m., 204 Stocking Hall.

## Ecology and Systematics

"Environmental Cyclicity and the Evolution of *Semionotus*," Amy R. McCune, Section of Ecology and Systematics, Sept. 7, 4:30 p.m., Morison Seminar Room, Corson/Mudd Hall.

## Engineering Library

"How to Search the Cornell Online Catalog," Sept. 6 and 8, 3 p.m., information/ref-

erence desk, engineering library, Carpenter Hall.

## Entomology

"Immunological Monitoring of Insecticide Resistance in Aphid, *Myzus persicae* Populations," Richard French-Constant, entomology, Sept. 5, 4 p.m., Morison Seminar Room, Corson/Mudd Hall.

## Food Science and Technology

"Expression and Secretion of Sweet-Tasting Protein Thaumatin in *Aspergillus oryzae*," Young Tae Hahn, food science, Sept. 6 4:30 p.m., 204 Stocking Hall.

## Mechanical and Aerospace Engineering

"Adventures and Misadventures in Telecommunications," R.S. Little, AT&T, Sept. 1, 4:3 p.m., B14 Hollister Hall.

"Today's Technology: Aerospace Manufacture," Peter Donohue, Grumman Aircraft Systems, Bethpage, N.Y., Sept. 8, 4:3 p.m., B14 Hollister Hall.

## Physiology

"Post-Translational Regulation of Sucrase-Isomaltase Expression in Intestinal Crypt and Villus Cells," Andrea Quaroni, Section of Physiology, Sept. 6, 4:30 p.m., G-3 Vet Research Tower.

## Textiles and Apparel

"Structural Changes in Polypropylene Textile Fibers Induced by Sunlight," Leo Barish, Albany International Research Co., Sept. 6, 12:20 p.m., 317 Van Rensselaer Hall.

## Theoretical and Applied Mechanics

"Fracture Mechanics Study of Interfacial Separation by the Complex Variable Boundary Element Method," Mitsunori Denda, engineering, Rutgers University, Sept. 7, 4:30 p.m., 205 Thurston Hall.

## Western Societies Program

"What's Happening in French Sociology? 1) The Burden of the Past," Claude Grignon, EHESS and Mellon visiting scholar, Sept. 6, 4:30 p.m., G08 Uris Hall.

"Thatcherdom and its Prospects," Peter Hennessy, co-director, Institute of Contemporary British History, Sept. 8, 4:30 p.m., 165 McGraw Hall.

# MISC

## Graduate Lambda Association

A dance, sponsored by the Graduate Lambda Association, will be held Sept. 2, 9 p.m.-1 a.m. at the Graduate and Professional Student Center, Sage Hall.

## Hebrew Speaking Club

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

## Intramural Sailing (men, women, co-ed)

Deadline on entries is Sept. 8, at 4 p.m. in the intramural office, Helen Newman Hall. Entry fee of \$10 due with roster to enter. Minimum of two to enter, skipper and crew. Sponsored by the varsity sailing team. Races will be sailed in 420's.

## Intramural Soccer (men, women)

Deadline on entries is Sept. 7, 4 p.m. in the intramural office, Helen Newman Hall. Entry fee of \$10 is due with roster to enter before the deadline. Specify preferred days of play, Monday through Thursday evenings.

## Mann Library Tours

Orientation tours of the Albert R. Mann Library: Sept. 1, 1 p.m.; Sept. 2, 1:30 p.m. The tours begin at the CUINFO terminal on the first floor reserve desk counter and last for 30 minutes.

## 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: Sept. 1, 3 p.m.; Sept. 2, 11 a.m.; Sept. 6, 11 a.m.; Sept. 7, 3 p.m.; Sept. 8, 1 p.m.; Sept. 9, noon.

Olin Library, Research Seminars covering online catalog, Union Card Catalogs, Computer Assisted Search Service (COMPASS), interlibrary services, etc.: Sept. 1, 10 a.m. and Sept. 6, 7 p.m. 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. 7, 10 p.m. To register, stop by the reference desk or telephone 255-4144.

## Personal Growth Workshops

New series begins week of Sept. 12. Topics include assertiveness; building self-esteem; building satisfying relationships; stress management; women, food and self-esteem; lesbian, bisexual; men's support group; older students support group; graduate student support group; ease and balance through awareness in movement. All groups are free and confidential. Sign-up in 103 Barnes Hall. Telephone: 255-3608.

## Uris Library Tours

Tours of the undergraduate library will be given Sept. 1, 3:30 p.m., and Sept. 2, 11:15 a.m. Meet in the Uris upper lobby. Tours last approximately 30 minutes. Mobility impaired students needing special tours should call 255-2339.

# University asks for improvements to Dryden landfill plan

A county landfill proposed for the "DR-7" site in West Dryden would place at some degree of risk the Cornell public water supply, according to a preliminary report by engineers who reviewed the project's draft environmental impact statement.

If the landfill is eventually placed at the DR-7 site, the engineers recommend that several design and operating improvements be made to minimize the potential threat to one of the three major water supplies in Tompkins County.

The review determined the possible effect a landfill upstream from the campus might have on the university-operated water supply that serves some 25,000 people on campus and in the Forest Home area. The proposed DR-7 site is within 1-1/2 miles of Fall Creek, the source of that public water supply.

Cornell officials reported on the engineering findings Aug. 30 at a public hearing conducted by Tompkins County. The university also will submit written

comments on the proposed landfill site, which is currently undergoing an environmental quality review process.

According to Harold D. Craft Jr., Cornell's associate vice president for facilities and business operations, reviews were conducted by university engineers and by Blasland & Bouck Engineers of Syracuse. Their suggestions call for further work and design modifications to minimize the probability that contaminants from the landfill will reach Fall Creek:

- More extensive tests should be made of the permeable soil layer beneath the site of the proposed landfill. (Plans call for a double plastic liner to prevent fluids in the landfill from leaking into permeable soils, which could conduct groundwater and fluids away from the site.)

- At least five feet of gravel -- a layer called a pore-pressure relief zone -- should separate the landfill's base from the underlying permeable layer. Current plans call for only one foot of separation, a design that would require a waiver of New York

State landfill regulations. The pore-pressure relief zone should include a complete network of drainage pipes within the gravel to facilitate groundwater flow.

- Surface water in streams around the landfill should be monitored more frequently than four times a year.

- An improved fail-safe mechanism should be provided to close storm-water bypass pipes, to prevent landfill fluids from mixing with rain water that runs into nearby creeks.

- Leachate, the material that filters through the landfill, should be removed from the site, treated and disposed of elsewhere.

Residents of the area around the DR-7 site have protested the plan to build the \$21-million facility, and some have urged the university to block the project. President Frank H.T. Rhodes said in May that while the university would have preferred another site, further studies were needed to ensure protection of the campus water supply.

The county's only current landfill must be closed by Dec. 31, due to a consent order by the state. If an extension of the consent order is not granted, all Tompkins County trash, including Cornell's, will have to be hauled as far as Buffalo or Ohio, according to Barbara Eckstrom, solid-waste manager for the county. Such a plan -- estimated at \$70,000 to \$90,000 a day -- would increase the cost of trash hauling for everyone in the county.

-- Roger Segelken

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

## Theory Center *continued from page 1*

significant improvement over the first proposal."

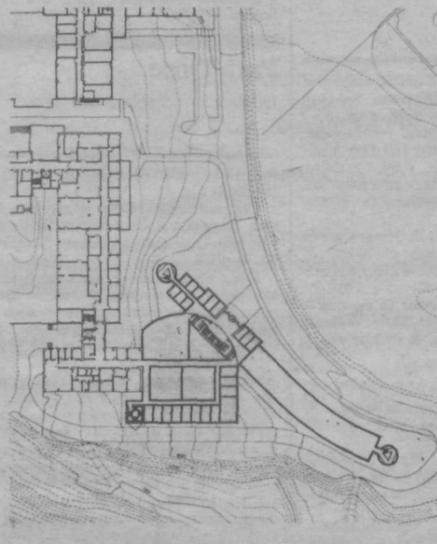
"Although the building is still near the gorge, its presence is not as overwhelming. It is also still a large building by Ithaca standards, but its appearance will be lighter and more open," Blumenthal said.

An earlier version of the building unveiled last summer was criticized for being too close to Cascadilla Gorge and intruding visually on the gorge because of its height.

Statements of support also came from Ithaca Mayor John Gutenberger, Cornell Plantations Director Robert Cook, Ulysses Town Supervisor and N.Y. State Assembly Candidate Martin Luster and Theory Center Acting Director David Caughey.

"The new Theory Center plan is the best possible compromise," said Betsy Darlington, a leader of opposition to the earlier plan. "The new building should be a stunning addition to campus instead of an eyesore."

Darlington cautioned, however, that measures should be taken to guard the gorge area against water runoff and debris during the construction period. She also said the energy-savings features of the building should be detailed and lighting should be installed on the building to



Architect's plan for the new Theory Center building showing how it is situated on Campus Road.

prevent birds from colliding with it at night.

Cook recommended that a fence be erected along the treeline of the gorge during construction to prevent debris from entering the gorge and asked that the

Plantations be consulted on any environmental matters to ameliorate any damage. He pointed out that placing the building on the north side of the gorge should minimize any effect on the gorge climate because the building will cast no shadows on the gorge.

Richard Booth, a city alderman and director of the Cornell Urban and Regional Studies program, expressed the hope that the building "does not establish a precedent to put more large buildings this close to the gorge." He cautioned that a continued increase in the density of buildings in central campus could mean an overloaded traffic system and require a new campus transportation system.

According to John Burness, vice president for university relations, the controversy over the building has led to an improved plan, as well as improved Cornell-Ithaca relations.

"We not only heard [the concerns over the building]; we believe we've responded," he said at the hearing.

"Even though this review process took considerable additional time and added approximately \$1 million to the project cost, we believe the resulting product is a better building that will help our engineering college serve the national

interest."

Burness also said that the university is completing an engineering study that will result in a renovation of the Cascadilla Gorge trail. He said that the discussion process begun with the Engineering and Theory Center building has been "transferred to a wide array of other issues" and should aid future cooperation between Ithaca and Cornell.

Burness pointed out that the Cornell center is the only one of the five national supercomputing centers without its own space. He warned that the center could not sustain its current level of activity -- supporting projects by 1,600 scientists around the country -- without permanent quarters.

Caughey said that the Theory Center staff "is presently occupying space in five different buildings, spread from Collegetown to the Ag Quad, and this separation imposes a severe hardship upon the staff and results in a diminution of the effectiveness of our programs." Location of the Theory Center with the Engineering College "will foster strong collaborative projects that will benefit students, faculty and our corporate and government partners," he said.

-- Dennis Meredith

# Job Opportunities

September 1, 1988  
Number 33  
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 CUINFO. Terminals are situated in main lobbies of Day Hall & Gannett Clinic, & the Olin, Mann & ILR Libraries.

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

-Minimum salaries listed are for recruitment purposes only.

-S=Statutory; E=Endowed

## Administrative and Professional

### RESEARCH SUPPORT SPEC. I (PT3318) Food Science-S

Resp. for daily operation of food chem. lab. Design, plan & carry out food chem. research. Analyze data & write progress reports, prep. manuscript for publications. Supv. techs., grad. students & student employees.

Req.: BS/MS in biochem./chem. or equiv. 3-4 yrs. biochem. lab. exp. Req. in HPLC & gel electrophoresis req. Exc. comm. skills. Req. Letter & resume to Judi Baker by 9/9.

### ASST. DIR., CAMPAIGN FOR PHYS. ED. & ATHLETICS (PA3302) Univ. Development-E

Assist Campaign Mgr. in overall direction of Athletic Campaign. Perform various fundraising activities developed to meet campaign goals. Assist w/Athletic Annual Fund.

Req.: BS or equiv. Exc. comm. (written/oral) skills. 1-2 yrs. exp. in educ'l. fundraising. Good org. skills. Exp. working w/volunteers. Letter & resume to Cynthia Smithbower by 9/16.

### PROJECT COORDINATOR (PA3303) Conservation-E

Assist Project Mgr. in developing, implementing & coord. RLG Great Collections Microfilming Project of the John M. Echols Collection. Resp. for daily project mgmt., incl. supv. & trng. students &/or staff, setting realistic monthly workflow projections, maintain stats. & other info. req. by RLG, monitoring film quality to insure that standards established by RLG & Library of Congress are met & serve as liaison w/Echols staff, cataloging dept. & filming agent.

Req.: BA or equiv. 1-2 yrs. lib. exp., pref. in research library. Previous supv. exp. Demonstrated ability to work effectively w/co-workers, supv. & public; able to work accurately w/details. Letter & resume to Cynthia Smithbower by 9/16.

### DIR., EQUINE SERVICES (PA3301) Clinical Sciences-S

Direct activities of Veterinary Equine Park incl. human resources/financial resources & facilities assoc. w/equine & food animals.

Req.: BS in ag. or equiv. MS pref. Min. 5 yrs. exp. managing an equine facility incl. financial supv. Demonstrated supv. & human relations skills. Effective written/verbal comm. skills. Letter & resume to Cynthia Smithbower by 9/16.

### ASST. DIR. FOR FINANCE (PA3304) Dean's Office, College of Engineering-E

Support Dir. of Admin. in areas of budget development, financial analysis, financial control/audit & systems development & maint. Mng. daily college acctg. operations.

Req.: MBA, other advanced degree or equiv. 3-5 yrs. exp. in univ. financial analysis & budget development. Good systems analysis, stat. skills. Exc. comm. skills. Letter & resume to Cynthia Smithbower by 9/16.

### MANAGER, COST ANALYSIS (PA3206) Controller's Office-E

Mng. cost analysis section of Univ.'s Controller's Office. Provide leadership in all cost analyses, both in determining methodology & in completing the analyses.

Req.: MBA; 5-7 yrs. exp. which specifically incl. cost acctg. req. Mgmt. & supv. skills & expertise in systems development, using microcomputers & mainframes nec. Strong effective written/oral comm. skills incl. ability to direct others. Letter & resume to Cynthia Smithbower by 9/9.

### ASSOC. DIRECTOR, BUDGETING SERVICES (PA3204) Finance & Business Svcs.-S

Resp. for stat. college budget function which plans & budgets for expenditures in excess of \$250M. Involved in development of CU financial planning & budgeting systems which serve needs of Univ. & state colleges.

Req.: BS in finance, busn. admin., political sci., public admin. or related field w/min. 8 yrs. exp. in gov't. or higher ed. budgeting. Send letter, resume, salary history & list of 3 professional references by 9/15 to Dir., Finance & Busn. Services, P.O. Box D, Cornell Univ., Ithaca, NY 14851.

### ADMIN. MGR. II (PA3205) Vet College: Clinical Sci.-S

Under gen'l. admin. direction, perform, supv. & direct programs related to personnel, busn. & facilities aspects of largest dept. in college. Resp. for mgmt. of programs/projects, budget, facilities & info/data systems plus grant admin., staff supv. & mgmt. analysis.

Req.: BA/BS or equiv. Knowl. of admin. & busn. mgmt. principles & methods. 3 yrs. (pref. 5 yrs.) relevant admin. & managerial exp. Knowl. of finance & acctg. policies & procedures. Famili-

ar & exp. w/computer systems & relevant software programs. Exc. comm., supv. & human relations skills. Letter & resume to Cynthia Smithbower by 9/9.

### RESEARCH SUPPORT SPECIALIST II (PT3206) HDFS/Family Life Development Ctr.-S

Provide technological support & develop research protocols & materials for stay in school program.

Req.: MA req., PhD pref., education psychology or related area. Exp. w/Youth Programs. Letter & resume to Judi Baker by 9/9.

### BENEFITS ASSOC. II (PA1003) Finance & Business Operations-S

Provide wide range of admin. svcs. & counseling to stat. colleges & Coop. Ext. personnel in areas of select benefits, health ins. & retirement, assist in developing communications; perform stat. analysis of benefits; conduct employee benefit seminars. Assist in developing & maintaining stat. benefits manual. Provide admin. support to Stat. Empl. Benefits Mgr.

Req.: BS/BA. Courses in personnel admin. helpful. 2-3 yrs. exp. in personnel, benefits, admin. plus counseling & knowl. of state health ins. & retirement plans. Good verbal & written comm. skills req. Letter & resume to Cynthia Smithbower by 9/9.

## 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., GR16 (C3303) NYSSILR Catherwood Library-S

Copy, type & computer input, book labeling, file. Handle phone messages & visitors; process book, periodical, supply & service payments; enter payment records in fiscal records system; assist w/input & filing as req. 8-5.

Req.: H.S. dip. or equiv. Aptitude for work w/microcomputers, photocopy machines & labeling equip. Med. typing. Min. Biweekly: \$401.77

### CIRCULATION/RESERVE ASST., GR16 (C3318) Mann Library-S

Work at both circ. & reserve desks. Assist w/supv. of student assts. during daily shifts. Coord. circ. desk activity during eve. hrs. Resp. for processing carrel requests & renewal sheets. Tues.-Thurs., 12-9 p.m., Fri., 9 a.m.-6 p.m., Sat. 10 a.m.-6 p.m.

Req.: H.S. dip. or equiv. Some college exp. desir. Able to work w/wide variety of people in public svcs. capacity. Org. & interper. skills essential. Min. Biweekly: \$401.77

### SECRETARY, GR18 (C3322) Public Affairs-E

Provide clerical & sec. support to Asst. to VP. Act as receipt.; schedule mtgs. & appts.; type, file, data entry.

Req.: H.S. dip. or equiv. Min. 1 yr. exp. Able to deal w/confidential material. Able to work independ. Good proofreading skills; strong interper. & comm. (written/oral) skills. Knowl. of IBM-PC and Apple Mac. Hvy. typing. Min. Biweekly: \$487.50

### OFFICE ASST., GR18 (C1823) Hotel Admin./Computer Svcs.-E

Perform operator activities on WANG VS 100 computer system & provide clerical/sec. assistance to Dir., Computer Svcs. Assist system operator in providing support to users, both Hotel School & Statler Inn. 1 yr. appt. until 5/30/89.

Req.: H.S. dip. or equiv. Min. 1 yr. exp. Knowl. or exp. w/computer hardware. Exp. w/WP. Org., interper. & comm. skills. Good typing skills. Min. Biweekly: \$487.50

### ACCTS. ASST., GR18 (C3317) Coop. Ext.-Administration-S

Ensure prompt reimbursement of vouchers to County Ext. Assoc. for incurred expenses. Audit, code & approve M&O & travel vouchers in compliance w/fed'l. regs. Prep. monthly reports & county ext. assoc. equip. purchase orders on IBM PC (Lotus).

Req.: H.S. dip. or equiv. Min. 1 yr. exp. in acctg. Exp. in voucher prep. & fed'l./state regs. governing accountability & expenditure funds. Lt. typing. Min. Biweekly: \$444.35

### SPEC. COLLECTIONS ASST., GR18 (C3022) History of Sci./Icelandic Coll.-E

Working hrs. evenly divided between Icelandic & History of Sci. Collections. Asst. in full range of collection activities incl. bibliographic searching, reading room supv., catalogue maint., sec. support, book shelving & stack maint., info asst., record keeping.

Req.: BA or equiv. in approp. field pref. Prev. work exp. in academic lib. pref. Able to work independ. & interact effect. w/stud. & scholars. Attention to detail. Knowl. of at least 1 mod. European lang. (Pref. Ger. or Scand.). Med. typing. Min. Biweekly: \$487.50

### SECRETARY, GR19 (C2415) Hotel Admin.-E

Provide sec./admin. support to several faculty. Act as liaison between faculty & students. Compile/type/proofread/edit complex course materials, exams, corresp., research proposals, mtg. minutes & reports using WANG equip. Answer phone, schedule mtgs. & appts.

Req.: H.S. dip. or equiv. Sec. school desir. Min. 2 yrs. exp. Able to handle conf. material & possess good judgment. Able to learn new software programs & computer skills important. Attention to detail. Exc. in copy reading. Exc. comm. (written/oral) skills. Pleasant phone personality important. Able to work cooperatively w/variety of people. Exc. p.r. skills. Med. typing. Min. Biweekly: \$510.90

### OFFICE ASST., GR19 (C3321) Statler Hotel-E

Provide sec./admin. support to hotel sales dept.

Req.: H.S. dip. or equiv., some busn. school pref. 2 yrs. sec. exp. Knowl. of computer/WP equip. Med. typing. Min. Biweekly: \$510.90

### ADMIN. AIDE, GR19 (C3308) Univ. Development-E

Provide sec., admin. & offic. mgmt. support for comm./mktg. group. Job tracking control, WP, mng. newsletter circ., maintain publications & reference material inventory, coord. printing & photography, some bookkeeping.

Req.: H.S. dip. or equiv. 2 yrs. exp. Exc. org. skills. Exc. interper., comm. & proofreading skills. WP exp. w/Mac. Able to establish & implement good offic. mgmt. systems. Willingness to learn desk top publish. Med. typing. Min. Biweekly: \$510.90

### ADMIN. AIDE, GR20 (C2708) Hotel Admin.-E

Provide admin./clerical data support for Alumni Aff. dir. Maintain all offic. functions, internal & external comm. during dir.'s absence.

Req.: AAS or equiv. Familiar w/data/WP system. Work well under pressure; possess exc. editing/composition/bookkeeping skills. Exc. org., interper. & written/oral comm. skills. Hvy. typing. Min. Biweekly: \$534.30

### SR. SEARCHER, GR20 (C3314) Mann Library-S

Coord. monographic searching for Collection Devel. Div. Resp. for gift processing. Sort & refer mail, maintain publisher catalogs & write letters of inquiry. Supv. student assts. & collection eval. projects staff. Asst. w/projects as assigned. M-Th., 8-5; Fri., 8-4.

Req.: BA or equiv. Exp. w/bibliographic searching highly desir.; RLIN exp. desir. Able to plan & direct several activities at the same time. Microcomputer WP highly desir. Effective written/oral comm. skills. essential. Med. typing. Min. Biweekly: \$496.71

### ADMIN. AIDE, GR20 (C3309) Electrical Engineering-E

Coord. grad. operations of Master of Engr. degree Program under direction of Asst. Dir. for Instruction & Undergrad. Advising. Provide sec./admin. support to Asst. Dir. for classwork, undergrad. advising & counseling. Assist w/admin. of EE Summer Co-op Program.

Req.: AAS or equiv. Min. 2 yrs. exp. Exp. w/grad. admissions & student records helpful. Able to work independ. Heavy typing. Min. Biweekly: \$534.30

### ADMIN. AIDE, GR20 (C3315) Academic Personnel Office-E

Provide admin./sec. support to Dir. & offic. Process academic appt. forms, draft corresp., maintain records, acctg. & purchasing functions.

Req.: AAS or equiv. in sec. sci. Familiar w/Mac SE desir. Able to work independ. & handle confidential matters a must. 2 yrs. admin./sec. exp. essential. Knowl. of CU admin. operations pref. Med. typing. Min. Biweekly: \$534.30

### ADMIN. AIDE, GR21 (C3310) Grad. School Dean's Office-E

Prep. Dean's corresp., maint. grad. faculty database, prep. stat. summaries on grad. degrees & grad. faculty for annual report.

Req.: AAS, busn./sec. sci. or equiv. Min. 2 yrs. offic. exp., Gregg shorthand essential, IBM or AT computer exp. w/Wordperfect req., Mac exp. a plus. Med. typing. Min. Biweekly: \$557.70

### RESEARCH AIDE, GR21 (C3319) Univ. Development-E

Locate, compile, organize & evaluate public & confidential info. about CU alumni, friends, corps. & foundations. Produce written reports & documents used by fundraisers, faculty, exec. staff. M-F, 8:30-5.

Req.: H.S. dip. or equiv., AAS pref. 2 yrs. exp. pref. Knowl. of research materials, library methods & computer. Exc. comm. & writing skills. Highly confidential work. 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.

### CUSTODIAN, SO02 (G3303) Buildings Care-S

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

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

### CUSTODIAN, SO02 (G3302) Buildings Care-E

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

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

### SALES ASST., GR16 (G2806) Campus Store-E

Provide customer svc. incl.: answer customer inquiries; assist w/Mac computer & printer usage; provide copy svc.; operate computerized cash register; stock merchandise; lt. cleaning & eve. store lock-up.

Req.: H.S. dip. or equiv. Min. 6 months retail exp. req. Mac computer/printer & large volume copier exp. essential. Exc. interper. & comm. skills. Min. Biweekly: \$448.50

### SALES ASST., GR17 (G2805) Campus Store-E

Provide customer svc. in Photography dept.

Demonstrate electronic equip. & recommend accessories; assist in maint. of photofinishing svcs. (some CRT work), inventory control & oversee student staff; stock shelves, operate computerized cash register. Some Sat. & eves.

Req.: H.S. dip. or equiv. Min. 1-2 yrs. related retail exp. Knowl. of cameras, accessories & photofinishing req. Strong interper. & comm. skills a must. Min. Biweekly: \$468.00

### 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. Min. hourly: \$6.00

### MATERIAL HANDLER, SO04 (G3304) Dining-E

Receive, inspect, store & issue food products, equip. & supplies. Clean & maintain assigned areas. Shift subject to change.

Req.: H.S. dip. or equiv. Basic reading & computation skills req. Knowl. of storeroom/inventory techniques & purchasing/receiving food. Able to lift 75 lbs. on continuous basis. NYS driver's license req. Min. hourly: \$6.25

## 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.

### RESEARCH AIDE, GR18 (T3315) CISER-E

Support processing of survey research projects. Implement & coord. mailing, phone interviewing, data collection/prep. & preliminary stat. analysis. Night & wknd. work when necessary.

Req.: AAS or equiv. Knowl. of survey methods, WP, dBase, SPSS-PC & SPSS-DE pref. Prior working exp. in survey research facility desir. Demonstrated ability & exp. in project mgmt. pref. Letter & resume to Judi Baker by 9/9. Min. Biweekly: \$487.50

### TECHNICIAN, GR19 (T3314) Food Science-S

Perform respiration, physical & chem. analysis. Conduct experiments w/supercritical fluids; analyze & report results. Operate & maintain lab equip. assoc. w/above analysis as well as equip. involved w/water activity analysis & phys. properties analysis.

Req.: BS chem. engr. or sci. (chem., bio., food). Exp. in GC, HPLC analysis of fats & oils. Familiar w/high pressure systems. Letter & resume to Judi Baker by 9/9. Min. Biweekly: \$470.81

### 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

### GREENHOUSE ASST. Boyce Thompson Institute

Perform gen'l. greenhouse duties such as watering, planting, spraying, lifting, etc. Some wknd. work req.

Req.: AAS, horticulture or equiv. exp. NYS driver's lic. req. NYS pesticide applicator's lic. & working knowl. of greenhouse operations helpful. Able to lift 50 lbs. Contact Merritt Compton, Boyce Thompson Inst., 254-1210. Min. Salary: \$10,700

## Part Time

### READING LAB MONITOR (PA2703) Learning Skills Ctr.-E

Org. instruction; order & maintain lab materials. Maintain student records, score tests, provide individual asst. to students. Some eve. work. 12:30-4:30.

Req.: BS in reading or related field. 1-3 yrs. exp. working w/college students in learning ctr. related activities; exp. w/study skills development, learning disabled students. Letter & resume to Cynthia Smithbower by 9/9.

### ASST. COORD. (PA2701) Learning Skills Ctr.-E

Teach regular & outreach workshops in study skills, develop materials, consult w/students, maintain student records. Afternoons & some eves.

Req.: BS in reading or related field, MS pref. Exp. working in college learning ctr.; strong comm. skills; exp. w/learning disabled students. Letter & resume to Cynthia Smithbower by 9/9.

### OFFICE ASST., GR17 (C3313) Neurobiology & Behavior-S

WP & edit course related material, corresp. & handouts; maintain, create & update files; order supplies. 20 hrs./wk.

Req.: H.S. dip. or equiv. Able to work in complex, active environ. Knowl. of Mac helpful. Heavy typing. Min. full-time equiv.: \$421.91

### OFFICE ASST., GR18 (C3302) CURW-E

Asst. in admin. of community svcs. work/study program. Solicit jobs from community

agencies & post in Student Employment Office. Process appt. forms. Data entry, record keeping. Asst. w/p/r operations & agency billings. 20 hrs./wk. 1 yr., renewal depending on funding.

Req.: H.S. dip. or equiv. req. Min. 1 yr. offic. exp. Good interper., org. & comm. skills. Familiar w/Lotus 123 & Wordperfect desir. Knowl. or exp. in community service helpful. CU exp. helpful. Med. typing. Min. full-time equiv.: \$487.50

### TECHNICIAN, GR18 (T3312) Genetics & Development-S

Assist Lab. Coord. for Bio. Sci. 281. Operate equip., set up labs, make & dispense media, maintain *Drosophila* stocks. 20 hrs./wk. flexible.

Req.: H.S. dip. or equiv., AAS pref. Prior lab exp. helpful. Must learn to operate autoclave, fine balance, pipetting machine, sterilizing oven, pipet washer & automatic rinsers. Able to work independ. Letter & resume to Judi Baker by 9/9. Min. full-time equiv.: \$444.35

### SECRETARY, GR18 (C3020) English-E

Serve as receipt. & info. source, type corresp., classwork on WP, supv., mail delivery, answer phone, screen calls, assist walk-in clients w/copy facilities. M-F, 12:30-4:30 p.m.

Req.: H.S. dip. or equiv. Sec. school desir. Min. 1 yr. sec. exp. Exp. working w/public. Mac computer exp., espec. Microsoft Word. Min. full-time equiv.: \$487.50

### ASST. SLIDE LIBRARIAN, GR19 (C3014) Slide Library-E

Supv. stud. assts.; slide & equip. circ.; clerical resp.; demonstrated use of AV equip. incl. projectors, tape decks, cameras, etc.; classification, binding, labeling & filing of slides, handle inquiries. Mon.-Fri. 8:30 a.m.-5 p.m. 21 hrs., spec. hrs.

Req.: BA Art History, Arch. History or equiv. Libr. exp. desir. Gen'l. knowl. of photography. Basic computer skills. Attention to detail. Lt. typing. Letter & resume to Esther Smith by 9/2. Min. full-time equiv.: \$510.90

### ADMIN. AIDE, GR19 (C3312) Career Center-E

Provide sec. support to Health Careers Eval. Comm. & Credential Svcs., exercise independ. judgment in organizing, planning & executing projects. Large mailings; maintain files; compose routine offic. corresp. M-F, 8-1.

Req.: H.S. dip. or equiv. Sec. school pref. Min. 2 yrs. related exp. req. Knowl. of WP & computer nec. Good org. skills w/attention to detail. Med. typing. Min. full-time equiv.: \$510.

# Bookstore renovations create a 'collegiate mall'

Rich McDaniel and a visitor were examining renovations in the Campus Store on the day before classes began, when McDaniel spotted a student who looked confused.

"Excuse me a minute," the store's director said to his guest. He returned a minute later after helping a student find the books for his "Continuing French" course amid the 4,000 textbook titles stocked for the 1,500 courses being taught this fall. "Service is the key," McDaniel told his visitor, and their tour continued.

The Campus Store -- which is renaming itself to simply "The Store" -- is in the middle of a \$1.65 million renovation that will turn the underground facility into "a collegiate mall," McDaniel said. "Our goal is to create the best college store in the country."

The renovations, including moving some functions to warehouses and other sites, will add about 4,000 square feet to the shopping areas. The second floor has been expanded, the store's departments are being connected so that students and other members of the Cornell community who shop at the store can pay for all of their purchases at one place. New cash registers are being installed to give clerks immediate access to inventory information and CornellCard balances while computer terminals will help customers find particular items. A new section will offer services such as FAX machines, photocopying, photography processing, typing and binding.

Lighting fixtures, floor coverings and wall decorations are being changed; even the music played through the public address



Richard McDaniel, director of the Campus Store, renamed simply "The Store," standing in a newly renovated area of the underground store on central campus.

system will vary from one department to another to create a special ambience for each section, McDaniel said.

"When you walk in this building now, you have a visual hodgepodge; you don't focus on anything. We're going to turn it

into a series of specialty shops with character," he said. Those shops will include a "world-class book store with 40,000 titles," a shop featuring Cornell memorabilia, a stationary and supplies shop, an area specializing in computers and

high-tech equipment, and a convenience area, he said.

The renovation work began in June and is scheduled for completion by May 1989, and at no point will the store be closed because of the construction, McDaniel boasted.

"The real story here is not the construction, but the people," added McDaniel, who holds two degrees (MPA '75 and MBA '77) from Cornell. "The building isn't going to deliver the service; it's knowledgeable and enthusiastic sales people that make the difference."

The Store employs about 100 regular employees, 70 of them full time, and adds a temporary staff of another 100 workers during peak times, such as the first week of a semester when business is 1,500 percent above an average week.

The Store has launched a professional development program, including a list of customer service standards that, for now, he is keeping secret.

"We don't want to go public with that yet," McDaniel said. "We want to deliver it first."

For the start of the fall semester, textbooks alone are spread over 60 percent more area than they were just a year ago -- making it sometimes easier and sometimes more difficult for students to find their books. One dozen workers were stationed in the textbook area to help students, McDaniel said.

"What it's all about is doing more than people expect; then, they're happy," McDaniel said. "Our goal is to surprise a lot of people."

-- Mark Eyerly

## Bonding cap clears Assembly, governor's approval expected

About \$102 million in long-deferred construction and renovation projects at Cornell's state-supported colleges moved closer to reality last week when the State Assembly approved Cornell's top legislative priority of the year -- raising the "bonding cap."

Following the Senate's earlier lead, the Assembly voted to raise by \$1 billion the amount of bonds that can be issued to finance capital projects for the State University of New York (SUNY) and the four state-supported colleges at Cornell. Gov. Cuomo's approval is expected, and work on the projects probably will begin next year, according to John F. Burness, vice president for university relations.

The largest project involves about \$70 million for the College of Veterinary Medicine to add 236,000 square feet of teaching and clinic space and renovate another 79,500 square feet.

Also crucial to Cornell are long-overdue renovation of two libraries that are considered pre-eminent in their fields -- the Catherwood Library of the School of Industrial and Labor Relations and the

Mann Library that serves the College of Agriculture and Life Sciences and College of Human Ecology. "Raising the cap on SUNY's financing authority is critical to sustaining and enhancing the excellence of Cornell's academic programs and has been the Cornell trustees' highest legislative priority of the past two years," said John F. Burness, vice president for university relations.

"The change had broad, bipartisan support. We're especially thankful for the efforts of Assembly Majority Leader James Tallon, Minority Leader Clarence Rappleyea Jr., Assemblyman Sam MacNeil, Speaker Mel Miller and staff.

"Raising the cap required a broad, statewide coalition, including trustees, alumni and friends, leaders of organized labor and a wide range of supporters of higher education. Steven Johnson, our executive director of government affairs, and members of his staff worked tirelessly over the past two years to put this coalition together, and he certainly deserves a great deal of credit for the final result."

-- Sam Segal



## Graduate Bulletin

**Late Registration:** Go to the Office of the University Registrar, 222 Day Hall.

**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. Course enrollment forms are available in campus mail boxes, graduate field offices and Sage Graduate Center.

**Graduate Faculty Meeting:** Sept. 9, at 4 p.m., in the General Committee Room, Sage Graduate Center, solely for the purpose of voting on August degrees.

**Graduate Student Council:** Meeting on Sept. 5, at 5:15 p.m. in the Graduate and Professional Student Center (formerly Sage Hall lounge). All graduate students are welcome to come and meet their representatives.

## Trustee executive committee to meet in New York City

The board of trustees' executive committee will meet in open session at 2 p.m. on Sept. 8 in the Executive Faculty Room (A-126) of the William Hale Harkness Medical Research Building at the Medical College, 1300 York Ave. in New York City.

Among items to be considered by trustees are the 1989-90 operating budget request for the state-supported units at Cornell, and personnel, financial and facilities matters.

The Buildings and Properties Committee of the board will meet in open session at 9 a.m. on Sept. 8 in the Vanderwerker Room of the Memorial Sloan-Kettering Cancer Center, 1275 York Ave.

A limited number of tickets for the open session of the Executive Committee will be available to the public beginning at 9 a.m. on Sept. 6 at the Information and Referral Center in Day Hall.

Tickets are not required for the open meetings of the Building and Properties Committee.

-- Sam Segal

## Salaries continued from page 1

become a common feature of pacts negotiated between the state and its employees and has nothing to do with the general budgetary stress faced by the state legislature this year.

Fawcett outlined the first-year phase-in:

The clerical and technical employees will be credited with 80 percent of their first-year increase from June 16 to Oct. 1 and will be paid at the full-increase rate from then to March 31, 1989, when year two begins. Once the increase becomes

effective, there will be a retroactive, lump-sum payment to cover the increase due since June 16.

Faculty and professional staff will be credited with at least 50 percent of their first-year increase from June 30 to Nov. 3

and will be paid at the full-increase rate from then to June 30, 1989. Once the increase becomes effective, there will be a retroactive, lump-sum payment to cover the increase due since June 30.

-- Sam Segal

## Job Opportunities continued from page 6

Heavy public contact. Mon.-Fri., 8 a.m.-4:30 p.m.  
Req.: AAS or equiv. work exp. 2-3 yrs. related exp. Attn. to detail. Exp. w/MS Word est., Wordperfect exp. helpful. Exc. interper., comm. (oral & written), & org. skills. Med. typing. Send letter & resume to Laurie Worsell.

**CLERK (C2906) Lab of Ornithology**  
Gen'l. sales duties at Crow's Nest Bookshop during wknds. & holidays. Open, close, & oversee register sales, answer phones, feed birds, answer basic questions. Occas. Mon. nights (3 hrs.) during seminars, alt. wknds. & holidays. Sat. & Sun. 11:30-5:00 p.m.  
Req.: H.S. dip. or equiv. Prev. sales exp. req. Knowl. of birds helpful. Good interper. skills. Letter & resume to Laurie Worsell.

**SECRETARY (C2829) Writing Program**  
Act as recept., answer inquiries, refer people to approp. staff. Type corresp., maintain files & offc. supplies. Keep track of calendar, copy,

handle mail, process accts. payable.  
Req.: H.S. dip. or equiv. AAS pref.; familiar w/Mac computers req. Min. 1 yr. offc. exp. Lt. typing. Good comm. (written/oral) skills. Able to deal well w/variety of people & work in busy environ. F/t temp. from 9/1-9/16. Call Laurie Worsell at 255-2192.

**SECRETARY (C2828) Human Service Studies**  
Type coursework, corresp. & provide gen'l. sec. support for routine offc. functioning. Distribute mail, run campus errands.  
Req.: H.S. dip. or equiv. Heavy typing, knowl. of Wordperfect essential. Min. 1 yr. offc. exp. req. Temp. p/t, 12 hrs./wk. (Mon., Thurs., Fri.) 9 a.m.-1 p.m. until 2/89. Call Laurie Worsell at 255-2192.

**SECRETARY (C2820) Ag. Economics-S**  
Admin. & sec. support for 2 professors involved in areas of teaching, research & extension. Prep. class materials, schedule rooms, prep. research materials, answer phones, make travel

arrangements, perform other WP. Mon.-Fri., 8 a.m.-12 noon.  
Req.: H.S. dip. or equiv. AAS pref. Min. 1 yr. offc. exp. Exp. w/IBM PC (Word software) pref. Med. typing. Call Laurie Worsell at 255-2192.

**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.

**CHIMES ASST. (C1604) Campus Affairs-E**  
Asst. w/corresp. & other contacts w/donors, visitors, alumni & others. Participate in org. & continued maint. of chimes offc. files related to

ongoing projects. Search out info. related to nec. supplies, etc. Provide staff asst. Asst. w/mtg. arrangements & maintain comm. Casual position, approx. 15 hrs./wk. for 1 yr. Letter & resume to Laurie Worsell.

## Academic

**4-H YOUTH LEADERSHIP SPEC. (A3301) Coop. Ext.**  
Plan, implement & evaluate 4-H Youth Leadership Programs in NYC. Work w/staff in conducting 4-H educat'l. events & activities. Assume resp. for supv. & admin. tasks as designated. Eve. & wknd. work & job-related trips out of town.  
Req.: MA w/3-5 yrs. exp. in urban youth leadership programs. Demonstrated supv. abil-

ity. Initiate & complete assignments independ. Work effectively w/adults & young people from multitude of cultural & economic bkgnds. Able to comm. effectively. Able to speak Spanish desir. Valid NYS driver's lic. Send letter of intent & resume to Tatyana Fabrikant, 15 East 26th Str. 5th Floor, New York, NY 10010-1565.

**DEPT. CHAIR (A3302) Food Sci.-Geneva**  
Send letter of application, resume & names & addresses of 3 references to Dr. Robert A. Plane, Director, NYS Agricultural Experiment Station, Geneva, NY 14456. 315-787-2211.

**RESEARCH ASSOC. III (A3303) Natural Resources**  
Send letter, vita, transcripts & names of 3 references to Milo E. Richmond, Dept. of Natural Resources, Fernow Hall, Cornell University, Ithaca, NY 14853 by 10/1.

# While you were away

While you were away, several arrivals and departures were announced, including those of a playwright, two deans, a composer, three program directors and Uncle Ezra.

Wole Soyinka, the Nigerian poet and playwright who won the Nobel Prize for literature in 1986, has joined the faculty with the start of this semester as the Goldwin Smith Professor of Africana Studies and Theatre Arts.

Soyinka is teaching undergraduates at the Africana Studies and Research Center and the new Center for the Performing Arts, where he is expected to direct several of his own plays.

He is team teaching his first course, "African Literature -- Theory and Practice," with Henry Louis Gates Jr., a friend and former student and the W.E.B. DuBois Professor of Literature. (Cornell Chronicle, July 7)

John J. Clark Jr., dean of the School of Hotel Administration, decided to leave that post on Jan. 1, 1990, instead of completing his second five-year term in June 1991. He expects to complete the school's \$35 million capital campaign and then return to teaching and research after a leave of absence. (Chronicle, July 21)



Claude Levett

## Steven Stucky

Steven Stucky, associate professor of music, was appointed composer-in-residence with the Los Angeles Philharmonic Orchestra for the next two years. He will continue to work with his composition students during visits to Ithaca while he writes a major symphonic composition for the Philharmonic. Its premiere performance is set for 1991.

A major part of his role in Los Angeles will be to advise Andre Previn, the orchestra's music director, on the availability of contemporary scores and to be "an advocate for living composers." (Chronicle, Aug. 4)

The new dean of the College of Human Ecology was chosen: She is Francille M. Firebaugh, formerly vice provost for international affairs at Ohio State University.

A specialist in family resource management and an administrator at OSU since 1973, she will succeed Jerome M. Ziegler, who is retiring on Oct. 1 after holding the post for 10 years. (Chronicle, June 9)

## Barton Blotter:

### Automobile, computer stolen

An automobile and its contents valued at \$16,000 and a \$1,300 computer were among some 21 items reported stolen on campus, according to the morning reports of the Department of Public Safety for Aug. 22-28.

Ralph B. Burr of Preble, N.Y., reported his 1988 Ford was stolen from the E. Service Lot of the Veterinary Research Tower sometime Aug. 25-26. The computer was reported stolen from Upson Hall sometime between Aug. 5 and 25.

Five thefts involved \$489 in cash and valuables taken from wallets and purses and

Richard E. McCarty, a specialist in the biochemistry of photosynthesis and a member of the faculty since 1966, is the new director of the Cornell Biotechnology Program. He takes the place of the program's founding director, Gordon G. Hammes, who has left to become vice chancellor for academic affairs at the University of California at Santa Barbara. (Chronicle, July 7)

Benjamin Ginsberg, professor of government and director of the university's new Institute for Public Affairs, has been named director of the Cornell-in-Washington Program. Associate director of the program will be Bruce W. Jentleson, formerly an assistant professor at the University of California at Davis and foreign policy adviser to the presidential campaign of Tennessee Sen. Albert Gore Jr. (Chronicle, July 7)

Sheila Jasanoff, associate professor in the Program on Science, Technology and Society, was named to a three-year term as director of that program. (Chronicle, July 7)

And Dear Uncle Ezra passed on. Jerry Feist handed over the task of offering computerized advice on CUINFO to an anonymous successor as he accepted the job of director of psychological services within Gannett Health Center. (Chronicle July 21)

## Awards and honors

While you were away, two alumni won McArthur "Genius Award" Fellowships: Novelist Thomas Pynchon and physicist Helen T. Edwards were among 31 winners this year.

Pynchon, a 1959 graduate and author of three novels, was cited for "his power of language and theme, and for his mastery of history, the sciences, politics and art."

Edwards, the head of the Accelerator Division of the Fermi National Accelerator Laboratory in Batavia, Ill., was cited for her work in design, development, installation and commissioning of Tevatron, "the world's highest-energy superconducting particle accelerator" and the "first successful superconducting proton accelerator ever built."

The MacArthur Fellowships, founded in 1981, provide up to \$375,000 over five years, with no strings attached. Pynchon, 51, will receive \$310,000, and Edwards, 52, will receive \$315,000. (Chronicle, July 21)



Jill Peltzman

## Richard G. Warner

The 1988 Edgerton Career Teaching Award was presented to Richard G. Warner, professor of animal science, at the College of Agriculture and Life Sciences

included \$95 stolen from a cash box in Anabel Taylor Hall.

One person was referred to the judicial administrator on charges of reckless endangerment, and an 18-year-old male Ithaca resident was charged with stealing a \$465 bicycle and turned over to county authorities.

Computerized copies of the most current daily report may be called up on CUINFO under the title SAFETY. CUINFO terminals are situated in the main lobbies of Day Hall, Gannett Clinic, and the Olin, Mann and ILR libraries.



Claude Levett

The "gene gun" for injecting DNA into plant and animal cells, developed by Edward Wolf and John Sanford, is prepared for operation by Guang-Ning Ye, a graduate student in botany.

## Alumni Breakfast on June 11.

Warner was recognized for 37 years of teaching at Cornell, during which he has taught the livestock nutrition course 26 times to more than 2,000 students, regularly advised 25 to 30 undergraduates, and served as chairman for nearly 40 graduate students.

The Medical College first-year class presented its annual award for teaching first-year basic science to Dr. Domenick Falcone, assistant professor of pathology and assistant professor of cell biology and anatomy.

## Research and scholarship

While you were away, several research developments were reported.

Cornell biochemists took X-ray diffraction pictures of biological molecules one million times faster than has ever been done with an X-ray beam -- using flashes one-tenth of a billionth of a second long, an achievement that marks the beginning of the use of superfast X-ray pulses to reveal the structure of molecules undergoing biological processes.

The experiment established that a beam-intensifying device called an undulator, which is the key basic component of the country's most ambitious facility for X-ray studies, will work as planned.

The facility, the Advanced Photon Source (APS), which will provide X-ray beams 10,000 times brighter than is now possible, is to be built at Argonne National Laboratory beginning in 1989, funded by the Department of Energy.

The undulator was designed by scientists and engineers at Argonne and Cornell and operated at the Cornell High Energy Synchrotron Source (CHESS).

The researchers, biochemistry Professor Keith Moffat, senior research associates Wilfried Schildkamp and Donald Bilderback, and research associate Marian Szebenyi, reported their results at the July meeting of the American Crystallographic Association in Philadelphia. (Chronicle, July 21)

Molecular biologists used a "gene gun" developed here to restore the energy-producing ability of animal and plant cells by shooting DNA into their power houses.

In the June 10 issue of the journal Science, researchers at Duke University and Cornell reported shooting DNA-coated microprojectiles into the chloroplasts of

green algae to restore photosynthesis.

In the same issue of Science, researchers at the University of Texas Health Science Center, Duke and Cornell reported restoring respiratory capacity in the mitochondria of baker's yeast using the same technique.

The yeast and algae cells used as targets were special deficient versions, whose energy-producing capacity had been crippled. (Chronicle, June 23)

Cornell researchers developed retail-size heavy-duty plastic food packages that can keep apples fresh and crisp for more than six months, raising the possibility that similar packaging could extend the storage life of a variety of other fruits and of vegetables.

The system is expected to be a boon to the nation's apple industry because it offers growers a convenient, low-cost method of storing apples in tip-top condition far beyond the season and allows supermarket operators to keep them in good condition until sold.

Its inventor is Syed S.H. Rizvi, associate professor of food science in the College of Agriculture and Life Sciences. (Chronicle, July 21)



Claude Levett

## Jerry Feist

## Extreme heat, humidity hurts books, warn librarians in wake of heat wave

Just about everything took a beating from this summer's heat wave, even books, according to Cornell librarians.

They point out that the 90- to 100-degree temperatures that swept most of the nation for weeks on end hardly provided the ideal environment for books, which is 70 degrees Fahrenheit at 50 percent relative humidity.

Book-preservation tips included on the back of bookmarks issued at the 16 campus libraries also point out that paper can become moldy at 80 percent relative humidity and that paper deteriorates quickly

at high temperatures.

The experts say you should not place bookshelves against exterior walls and that you should make sure windows fit properly in order to help avoid book-destroying extreme temperatures and humidity.

Other book-conservation suggestions include using metal shelving instead of wood to guard against wood borers and periodically dusting books and shelves. Also, keep food and drink out of the area of books, so as not to attract book-devouring insects and animals.