

CORNELL Chronicle

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Abortion

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Eve Paul '50, vice president of legal affairs for Planned Parenthood, is at the forefront of the fight to have abortion court-certified as a legal right.

Xeriscaping

p. 7

Water use could be reduced by one-third if more homeowners used landscape designs and horticultural methods that minimize water use, says a landscape horticulturist.

New process for anti-cancer drug could spare yew trees

A tissue-culture process being perfected by biotechnologists from Cornell could produce virtually limitless quantities of the cancer-fighting drug taxol in two to five years, according to principals of a private, off-campus company that was formed to develop the pharmaceutical technology.

Producing taxol in cultures of cells grown in stainless-steel vats — instead of harvesting Pacific yew trees to extract the substance from their bark — would avert a standoff between cancer patients and environmentalists, said Rustin R. Howard, president of Phyton Catalytic Inc. Phyton was formed by graduates of the School of Chemical Engineering and Johnson Graduate School of Management, and holds an exclusive license from the U.S. Department of Agriculture to produce taxol and like compounds in tissue culture. The firm has joined a collaborative research and development program with USDA.

The next step for Phyton's staff of scientists, chemical engineers and technicians will involve answering what Howard calls "the bioreactor questions." Bioreactors are machines that provide the appropriate conditions for living cells to make useful products; a beer vat, in which yeast turns fermenting barley into alcohol, is a form of bioreactor.

"We test alternatives on a small scale — rather than wasting time and resources on full-scale systems — until we determine which designs will be most efficient," Howard said. A small-business grant from the Biotechnology Program to Phyton Catalytic has allowed the firm's scientists to use fermenter facilities in Cornell laboratories.

Tissue-culture production of taxol is just one of several alternatives to harvesting yew trees, explained Michael L. Shuler, the professor of chemical engineering who taught two of the Phyton Catalytic principals, Christopher Prince and Vankataraman Bringi, when they were graduate students. Many of the techniques that Prince and Bringi are applying to taxol-production problems were developed while working on their chemical-engineering degrees, with support from the National Science Foundation and the Biotechnology Program.

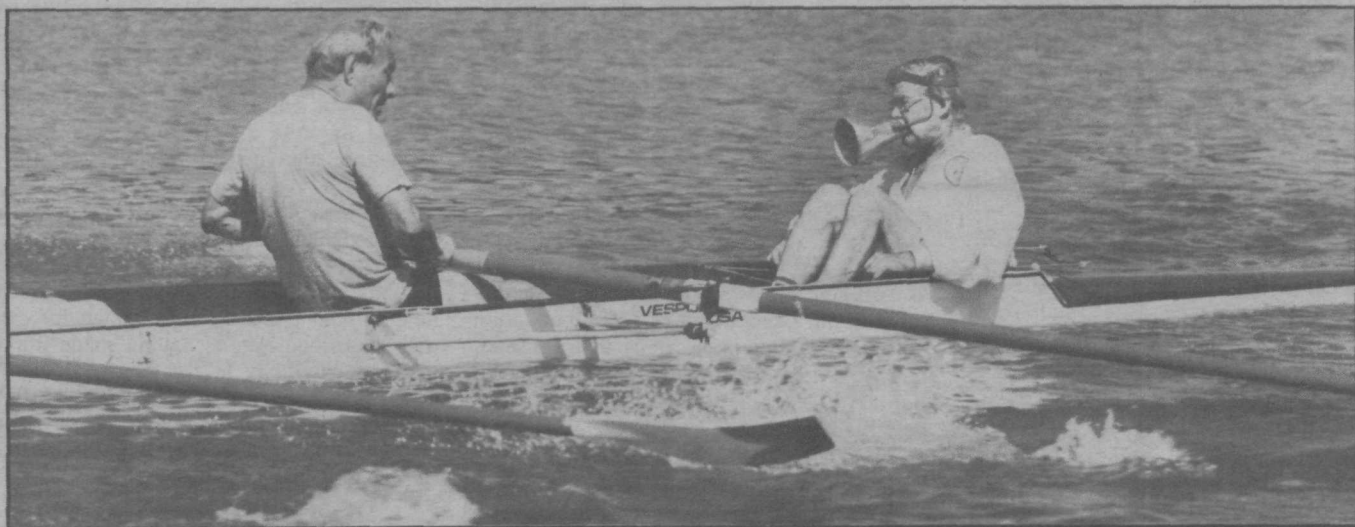
As a result of the collaborative research agreement with the Department of Agriculture, two USDA scientists have relocated to that agency's laboratory on campus, where they will continue their work on tissue-culture methods for commercial production of taxol.

"We are looking at the biology of taxol production in

tissue culture systems and the variability of different cell lines," reported Donna Gibson, a plant physiologist with the USDA's Agricultural Research Service. Until some means of manufacturing taxol can be perfected, the drug's use to inhibit the growth of cancer cells will be limited by the availability of the Pacific yew tree, *Taxus brevifolia*, the slow-growing evergreen from the Northwest United States and Canada. Bark from nearly three 100-year-old trees is needed to treat each woman with ovarian cancer, the disease that kills 12,000 Americans each year and the one in which clinical trials of taxol were first successful. Three to four times as much taxol will be needed to treat breast cancer, according to the National Cancer Institute, and even more would be consumed in the treatment of lung and colon cancer.

"Tissue culture lets us make use of valuable genetic resources without depleting them," said Howard, who learned of the technique's potential while studying for a M.B.A. in the Johnson Graduate School of Management. "We don't cut down trees. We don't kill any trees. We're addressing two problems — medical and environmental."

—Roger Segelken



Jack Kruse (left) and coxswain Chuck Bogue, both from the Class of 1941, participate in the Reunion Row.

Alumni find memories and inspiration

"I'd have to pay a \$1,000 for a seminar like that, and it wouldn't be nearly as good. This was super," George A. Nicholson III '56 said after a Reunion Weekend program.

Reflecting the excitement created by cultural and social overload at reunion time, Nicholson — known as Nick to his friends — spoke enthusiastically in the hallway circling Bailey Hall.

He had just heard a seminar on "Courting Creativity," featuring talks by Nobel laureate Roald Hoffmann, the John A. Newman Professor of Physical Science, and David Feldshuh, artistic director of Theatre Arts and a practicing physician in Tompkins County.

He also had just spoken to former President Deane W. Malott, whom he had spotted as the crowd inched its way out through the packed aisles of Bailey.

Nicholson, now a retired partner of Arthur Andersen & Co. in Detroit, introduced himself to the university's 92-year-old sixth president. Nicholson said he was a member of a fraternity that Malott had placed on probation.

He explained that although he was upset at the outset, he came to understand the necessity of the action after Malott visited the house and discussed the decision. This was something, he told the former president, that he had "greatly admired."

Only minutes before, Malott himself rose twice from his seat in Bailey Hall — with the aid of his cane — as the alumni

gave President Frank H.T. Rhodes standing ovations before and following his annual State of the University Address.

In the address, which followed the seminar on creativity, Rhodes spoke of what he called "bizarre" attempts of a number of institutions across the country to "legislate a more harmonious campus

climate by sharply curtailing free speech." He emphasized that at Cornell, "a difference of opinion represents not a catastrophe but an opportunity. . . . For it is from open exchange of views that truth will ultimately emerge and errors will be corrected."

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Professor Emeritus Russell D. Martin '39 (left) and Raymond Miller '38 reminisce during the Agriculture and Life Sciences reunion breakfast.

Cuomo vetoes funds restored by Legislature

Stating that the budget adopted by the Legislature on June 4 was substantially out of balance, Gov. Mario Cuomo vetoed more than \$900 million in legislative items last week, leaving Cornell about where it was after the Executive Budget was proposed back in January — facing a negative budget impact that Provost Malden C. Nesheim has estimated at \$10.4 million.

The figure reflects not only a decline of \$3.2 million — or 2.5 percent — in state appropriations to Cornell but also foregone inflationary adjustments and lost student aid, much of which Cornell will make up from its own general-purpose funds.

The vetoes affected nearly every restoration and addition made to the 1991-92 budget by the Legislature in all program areas. Among the vetoed items most important to Cornell:

- The restoration of \$17 million of a \$74 million cut to the State University of New York. Now, Cornell's share is likely to be near \$6 million rather than \$5 million.

- A partial restoration of Bundy Aid so that Cornell's loss would have been about \$2 million rather than \$3 million. Bundy Aid is a fee the state pays to independent institutions for each degree conferred.

- The restoration of Tuition Assistance Program cuts, without which Cornell students would lose more than \$900,000 in aid, much of which Cornell will now provide.

- Some \$2.7 million in legislative additions supporting academic programs in all four state-assisted Cornell units.

After accounting for inflation, the cut to the state-assisted units themselves amounts to about \$6 million, which comes on top of \$5.6 million in state-mandated cuts during the year that ended March 31. Nesheim has called the effect "a substantial loss of core academic support."

The two legislative houses could override the vetoes, negotiate with the governor or initiate new, supplemental spending items. Cornell officials were unable to speculate which if any of the vetoed items might be restored again.

Even if there are no further restorations, Nesheim has said that Cornell's academic offerings next year would still be of high quality, because the deans of the statutory colleges have anticipated tight budgets and have planned the careful pruning of programs, positions and expenses.

—Sam Segal

Spreading the word



Donna Middleton

Five thousand pounds of surplus books are prepared for shipment to Lithuanian universities by Chemistry Department members (from left) Wayne Davenport, Jim Burlitch, Brad Anton, Chris Ober and John Terry.

Students donate 15,000 clothing items to local community-service agencies

Before they left campus in May, students donated about 15,000 items of clothing to several local community agencies.

"That's more than one article of clothing for each undergraduate student," said Connie Fuess, an organizer of the drive.

Fuess, director of Cornell's Ecology House, said large collection boxes were placed in dozens of campus locations, including the lobbies of all undergraduate residence halls and at Ecology House, a residence hall dedicated to the four Rs — reduce, reuse, recycle and respect.

"We collected used and new clothing, including some that still had price tags," Fuess said. "We also received games and stuffed animals that we shared with groups helping the homeless and other less fortunate people in Tompkins County."

Recipients of clothing this year are Bib

'n Tucker, a low-cost, used-clothing store affiliated with Area Congregations Together; the Friendship Center; Southside Community Center; and the Tompkins County Economic Opportunity Corp.

While this is the third year the clothing drive has been conducted campuswide, Ecology House has been conducting a limited collection program at its North Campus location for several years, Fuess explained.

Fuess said this year's drive was a true community effort, citing Erik Silldorff, a senior in the College of Agriculture and Life Sciences who was chairman the Ecology House Recycling Committee; Don King, a custodial group leader from the Department of Residence Life; and Dana Smith, production foreman at Borg-Warner Automotive Inc. in Ithaca, who provided the boxes used for collections.

Wanted: People to share commuting

Rideshare, part of the university's parking-and-transportation plan, begins July 1. Participants in car pools will be eligible for financial incentives.

The Office of Transportation Services has put together a "commuter connection" to help people who want to car pool get in touch with one another. People from some 20 areas — including Auburn, Aurora, Burdett, Cortland, Dryden, Ema, Interlaken, Ithaca, Lansing, Newfield, Owego and Watkins Glen — have expressed an interest in driving or riding in a car pool.

Others interested in driving or riding can use the "commuter connection" on CU-INFO or can send the following information to the Traffic Bureau at 116 Maple Ave.:

name; whether you're interested in driving, riding or sharing driving duties; address; work days and hours; phone number; and preference of a smoker or non-smoker.

The incentives for car pools are:

- For perimeter areas (which will cost \$180 for singles), the fee for two in a car will be zero; with three people, there will be a \$90 rebate divisible as the group chooses; for four, a \$180 rebate.

- For east-central areas (\$270 for singles), the fee for two is \$90; there is no charge for three; and there is a \$90 rebate for four.

- For central areas (\$360 for singles), the fee for two in a vehicle will be \$180; for three, \$90; and for four, no charge.

BRIEFS

Teacher education: Cornell has received an anonymous gift of \$380,000 to provide support for students enrolled in the teacher education in science and mathematics program. The gift will support undergraduate students' field experiences and provide fellowships for graduate study. The gift also will assist the Cornell/Schools Mathematics Resource Program, which offers continuing-education opportunities to experienced teachers.

Fireworks: The 1991 Ithaca Community Fireworks Show will be held July 2 at Ithaca College. "Laser-viewer" glasses that organizers say will enhance the fireworks are being sold for \$1 each to pay for the fireworks display. The glasses are available at Wegmans, Tops, J.C. Penney, American Community Cablevision and all branches of the Tompkins County Trust Co. The show is being billed as the "largest aerial display in central New York," and will feature stars, hearts and champagne glasses.

Bloodmobile: The American Red Cross Bloodmobile will be at Willard Straight Hall on June 19 from 10 a.m. to 3:45 p.m. The visit is being sponsored by the faculty. Call 273-1900 for an appointment; walk-ins are welcome.

Reaccreditation: The university's final report concerning the reaccreditation study of the Commission on Higher Education Middle States Association of Colleges and Schools is available at library reference desks and in Room 433 Day Hall.

Nominations: The University Lectures Committee is seeking nominations for the Messenger Lecture Series and the University Lectureship. Each Messenger Lecturer gives a series of lectures; the next opening is in fall 1993. A University Lectureship is the most prestigious forum that Cornell can offer a visitor invited to deliver a single lecture; the committee is interested in nominations for fall 1991 and beyond. For more information, contact Judy Bower at 315 Day Hall, 255-4843.

Fulbright: Dave Lindorff, a former lecturer in the Department of Communication who is teaching on campus this summer, has won a 10-month grant as a Fulbright Scholar to teach at Shanghai's Fu Dan University.

Folk guitar: Group folk-guitar lessons will be held on campus this summer. There will be six one-hour lessons on Tuesday evenings, starting June 25, in the North Room of Willard Straight Hall. Registration will be held at the first lesson. Beginners will meet at 7 p.m. and intermediates at 8 p.m. The fee is \$30. For more information, call Phil Shapiro at 844-4535.

Bicycle warning: Bicyclists are being advised that heavy-truck traffic will be using Game Farm Road this summer as part of the Route 366 detour necessary for a city of Ithaca reconstruction project near the university's heating plant. University and local public-works officials are asking bicyclists to use an alternate bike route to the campus.

NOTABLES

Maury Tigner, professor of physics and director of operations at the Floyd R. Newman Laboratory of Nuclear Studies, has been elected a fellow of the American Academy of Arts and Sciences. Tigner is among 195 new fellows, including eight physicists, honored for their distinguished contributions to science, scholarship, public affairs and the arts. The academy was founded in 1780 by John Adams and other leaders, who chartered the society "to cultivate every art and science which may tend to advance the interest, honor, dignity and happiness of a free, independent and virtuous people."

Gerhard H. Jirka, professor of civil and environmental engineering, has been named a Fulbright Scholar for 1991-92. His grant is for lecturing and research at the Technical University of Vienna. During the 1991-92 academic year, 1,800 U.S. students, teachers and scholars will study, teach and conduct research in more than 130 countries around the world under the Fulbright Program. Of these, close to 1,000 are faculty at colleges and universities in the United States.

Chekitan S. Dev, an assistant professor of marketing in the School of Hotel Administration, has been appointed to the marketing assurance committee of the American Hotel & Motel Association, based in Washington, D.C.

Steven Stucky, associate professor of music, is one of seven composers who have won commissions from the Serge Koussevitzky Music Foundation in the Library of Congress and the Koussevitzky Music Foundation Inc. Stucky's commission, co-sponsored by the Society for New Music in Syracuse, is for a song cycle for low voice and small mixed ensemble. In 1988, Stucky was one of 10 composers commissioned to write a new work honoring the centennial anniversary of Carnegie Hall.

Thomas Avedisian, associate professor of mechanical and aerospace engineering, has been elected a fellow of the American Society of Mechanical Engineers. A colleague who nominated Avedisian for election described him as having made important contributions in the field of droplets and bubbles that occur in situations such as a microgravity environment, phase transitions of highly superheated liquids and the interactions of droplets with walls.

Ursula Duetschler of Switzerland, an extramural graduate student, and **Zvi Meniker** of Israel, a Ph.D. candidate in music, won first and second prize, respectively, in the Erwin Bodky International Competition in Boston. Both are students of Malcolm Bilson, the Frederic J. Whiton Professor of Music. This year's competition was devoted to Mozart's solo keyboard music played on the 18th-century Viennese forte-piano.

John Hopcroft, chairman and the Joseph C. Ford Professor of Computer Science, was among about 100 alumni of Seattle University who were presented with Centennial Alumni Awards during the university's commencement June 9. Those honored were selected based on their service to others, exceptional leadership and uncommon achievement.

Walter R. Lynn, dean of the faculty and professor of civil and environmental engineering, has won the Public Service Award of the Universities Council on Water Resources. He was recognized for his role in establishing the field of water-resource-systems engineering and for making public service a foundation of his work.

Ade T. Milhorat, a retired professor at the Medical College and the first researcher ever to receive a grant from the Muscular Dystrophy Association, has been named the first recipient of the MDA's Jerry Lewis Research Award. The award recognizes lifetime achievement in the study of neuromuscular disease. Milhorat, 92, began work in the area of muscular dystrophy in the 1930s and established the country's first laboratory and hospital-care facility for the study and treatment of those with neuromuscular diseases at New York Hospital-Cornell Medical College in the 1940s.

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

GRADUATE BULLETIN

Degrees: Aug. 23 is the deadline for completing all requirements for an August degree, including submitting the thesis/dissertation to the Graduate School.

Seminars: Dissertation and thesis seminars will be held in the Morison Seminar Room, Corson/Mudd Hall, 3 to 4 p.m., Tuesday, July 9, for master's theses and Thursday, July 11, for doctoral dissertations. The thesis adviser will discuss preparing and filing theses and dissertations; students, faculty and typists are encouraged to attend.

Fellowships: The Fellowship Notebook, listing more than 350 awards, is available in each graduate field office, on CUINFO under the heading academic and the subheading grad, and at the Graduate Fellowship Office, Sage Hall. Postcards are available to request application forms; some forms are on file in the Graduate Fellowship Office.

CU official outlines events relating to campus assault

A 17-year-old Spencer-VanEtten High School student was arraigned last week in connection with the May 27 assault, near Beebe Lake, on graduate student Jinhua Xiao. The following is a chronology issued by Henrik Dullea, Cornell's vice president for university relations.

Xiao, a student in plant breeding and biometry, was returning in late afternoon to his home at the Pleasant Grove Apartments. He was assaulted by a group of young men on the east side of Beebe Lake. He suffered facial cuts that were later treated at Tompkins Community Hospital.

The next day, May 28, the university provided local media with an account of the incident, and its Office of Community Relations asked the Ithaca Journal to seek reader cooperation. The May 29 Journal article concluded that anyone with information or "who may have seen a group of rowdy people in the area" should call Cornell Public Safety's major-investigations unit.

There followed several calls to Public Safety and the Spencer police from parents of students at Spencer-VanEtten High School, some 30 miles from Cornell. They said their sons had information about the assault. Public Safety worked with parents, the school and Spencer police to arrange interviews with six students.

Those interviews led to the arrest, on May 31, of a seventh student, Matthew Seymour of the town of Barton. The same day, Cornell issued a press release saying a youth had been arrested, and local media carried the report through the weekend.

On the basis of evidence available to District Attorney George Dentes, Seymour was arraigned June 12 before Ithaca Town Justice Merton Wallenbeck and charged with assault and aggravated harassment, as well as three counts of providing underage companions with beer.

Scott Hamilton, who headed Public Safety's investigation, said progress was

made possible by speed in reporting the assault and publicizing the facts and by the cooperation of parents, students, Spencer school officials and members of the New York State Police and Spencer police.

Public Safety, which has increased its presence in the area of the assault, has completed its initial investigation but is ready to cooperate in any way requested by the district attorney.

The university responded in several ways besides the investigation itself.

These included daily contacts with Department of Residence Life staff, including resident advisers Enrique Estrada and Jean Helmick, community aide Joanne Smith, program coordinator Fran Doney and the assistant director for the North Campus Housing Area, Mike Daley.

Residence Life also joined Public Safety in June 5 and 6 public discussions of the incident with other graduate-student families.

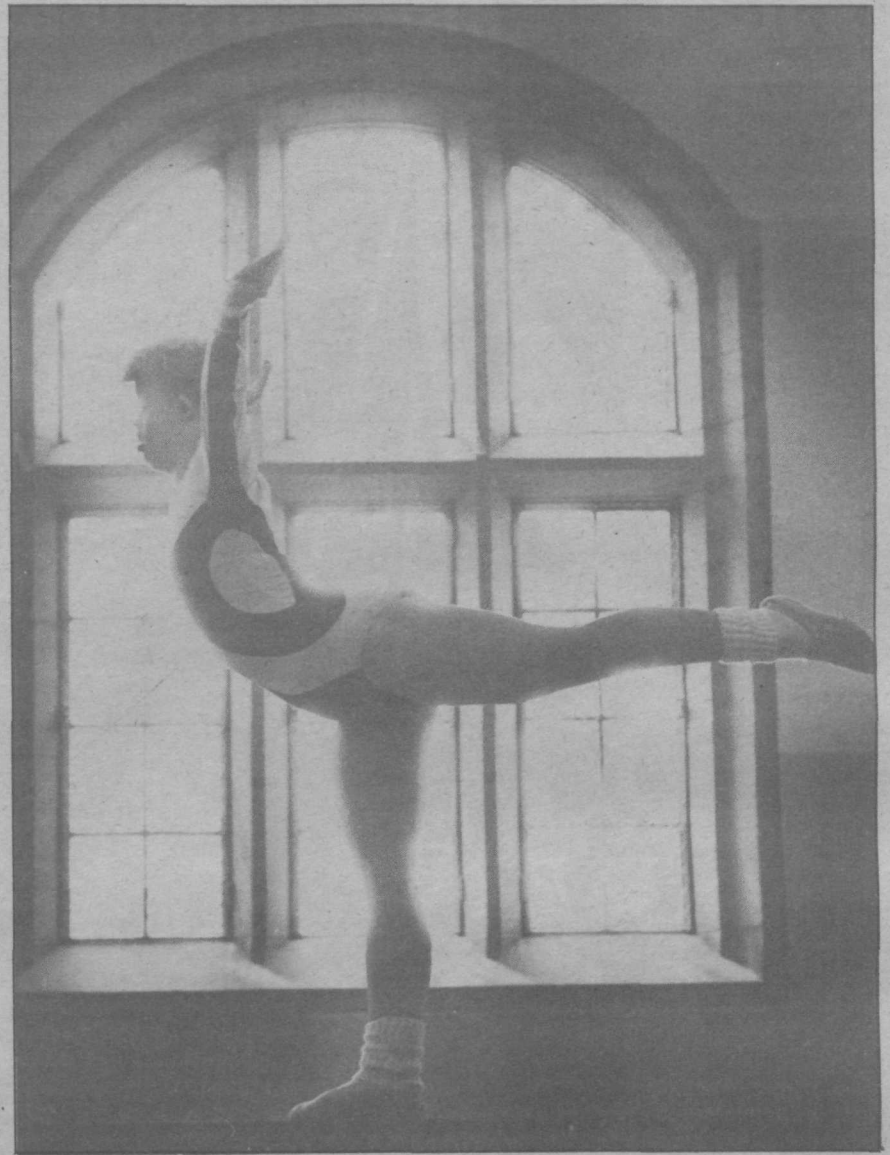
On June 5, President Frank H.T. Rhodes wrote to Xiao expressing sympathy and voicing outrage at "an abhorrent offense against both of our cultures." Rhodes added: "That such an attack could occur in the environs of an enlightened university community is unconscionable."

Rhodes also arranged for Xiao to meet with Joycelyn Hart, associate vice president for human relations, to whom Xiao subsequently expressed appreciation for Cornell's official and unofficial responses.

On Sunday evening, June 16, Rhodes and members of his executive staff met for two hours with Xiao and more than 75 Chinese graduate students, other international students and staff and interested faculty.

After again expressing his profound regret over the incident, the president introduced Associate University Counsel Thomas Santoro, who provided the group with a detailed overview of how the state's criminal-justice system works in such cases. Arrangements for further meetings will be coordinated by Hart.

Special Olympian



Peter Morenus

Cara DiFalco, 15, of Staten Island, performs on the balance beam in Teagle Hall during the New York State Special Olympics, held on campus June 13 through 16. Some 2,000 athletes and coaches came to campus for the games.

Eve Paul: Managing the legal fight for a right to abortion

Outside Eve Paul's office at the Planned Parenthood Federation of America in New York City, several women — her staff attorneys — were debating a statement just faxed over by the Department of Health and Human Services.

Inside the office, Paul, the vice president of legal affairs for Planned Parenthood, picked up the phone — "Excuse me," she said to her visitor, "we're having quite a morning" — and dialed Faye Wattleton, the organization's president, to advise her to immediately read the DHHS statement on abortion counseling.

"I'm encouraged today," Paul, Class of 1950 and a former member of the Board of Trustees, said after hanging up. "I think this may signal a major acknowledgment by the Bush administration that the Supreme Court's decision went too far."

On May 23, the U.S. Supreme Court up-

woman at the forefront of the fight to have abortion court-certified as a legal right. It was a swing as fast as others have been dramatic in her 20-year career with Planned Parenthood.

When Paul began her career with the non-profit organization, working for its outside counsel, the 1973 Roe vs. Wade decision was just about to be handed down. Former Presidents Harry S. Truman's and Dwight D. Eisenhower's names appeared on the letterhead. And Paul felt confident that the majority of the court and the country felt women should have a legal right to abortion.

Today, as head of the legal division, Paul has seen significant courtroom defeats for those favoring a legal right to abortion. President Bush, who supported Planned Parenthood before running for vice president, has switched sides and vowed to veto any legislation that would ease abortion restrictions. And the makeup of the Supreme Court has changed to such a degree that Paul thinks there is a "major risk" it will use a case going before it next year to overturn Roe vs. Wade.

But one of the things Paul has learned through her experience in this most volatile national debate is that the only way to handle too many ups and too many downs is not to get too up or too down over any one.

"I've been at this a long time. I know things get worse and things get better. I don't get as excited over each change anymore. I'm confident we'll win in the long run," she said.

Paul's commitment to securing a legal right to abortion developed many years ago, under the influence of her personal philosophy, the women's movement and the experience of having an abortion before it was legal.

"I happen to be Jewish and am not taught that the fetus is a human life. To me, it is wrong to put a fetus over a woman," she said. If the government were to again make abortion illegal — because of the conviction of the Roman Catholic Church and some other Christian faiths that the fetus is a human life — it would violate her own beliefs, she added.

The women's movement also influenced Paul's commitment, persuading her that "if we couldn't control pregnancy, then equality in the workplace is meaningless."

But perhaps the most immediate influence, she said, stemmed from the experience of contracting the German measles during a pregnancy. Knowing that bearing the child would carry a substantial risk of birth defects, she sought an abortion. This was before Roe vs. Wade, and she had difficulty finding a doctor she could trust to perform a safe one. The experience, she said, made her realize the risks women can face when the right to an abortion is not guaranteed.

"Throughout history women have always had, and always will have, abortions. The only thing that changes is whether it is safe or back-alley," Paul said, adding, "So many people today forget how many women were made sterile the back-alley way."

If abortions are banned, not only would women's health again be at risk, she said,

but more women might end up seeking abortions than do now because some forms of contraception would also be made illegal, such as the IUD and forms of the birth control pill thought to work after conception.

"I think a lot of people don't recognize that many who are opposed to abortion are also opposed to contraception," Paul said. And that, she added, suggests that the motivation of some may be "based on reaction to the women's movement and a desire to return women to the subservient position women once held."

Paul's path to the position she now holds began while she was a student at Cornell in the late 1940s. Having taken a class in constitutional law, she became interested in the field, completed a J.D. at Columbia University, went to work in private practice, married, moved to Stamford, Conn., and raised two children while working part time.

"I went to the office in the morning and picked my children up in the afternoon. I did all the things suburban women do," Paul said, adding that suburbia is a place "set up to keep women home, chauffeuring kids."

Then in the early 1970s, Paul and her family moved back to New York City, and she went to work for the law firm that was counsel to Planned Parenthood. In 1978, she became the first staff attorney hired by Planned Parenthood and, one year later, was named vice president for legal affairs.

She became a Cornell trustee in 1979, holding the seat until 1984, and "shocking the old boy network," she said, because she was one of two women elected that year. A print of the campus hangs in her office now. And she said she particularly likes Cornell alumni: "They always seem very open and friendly. I think people who select Cornell are making a statement that they want to be in a more democratic and less elitist environment," she said. But while she was a trustee, she criticized the university for having too few women deans, and, today, the criticism still applies, she said.

Meanwhile, on the abortion front in the late 1970s, the anti-abortion movement was gaining strength, and Planned Parenthood's

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CORNELL
People

held DHHS regulations that Planned Parenthood had challenged. The court thus barred employees of federally-financed family-planning clinics from providing abortion counseling or they would be denied the funding. Planned Parenthood responded to the ruling by vowing to provide counseling, forego the federal funding and lobby for legislation that would neutralize the decision.

Then, suddenly, on this morning of May 31, the new DHHS statement sent to Paul's office seemed to her to offer a slight easing of the regulations, allowing abortion referrals in some cases.

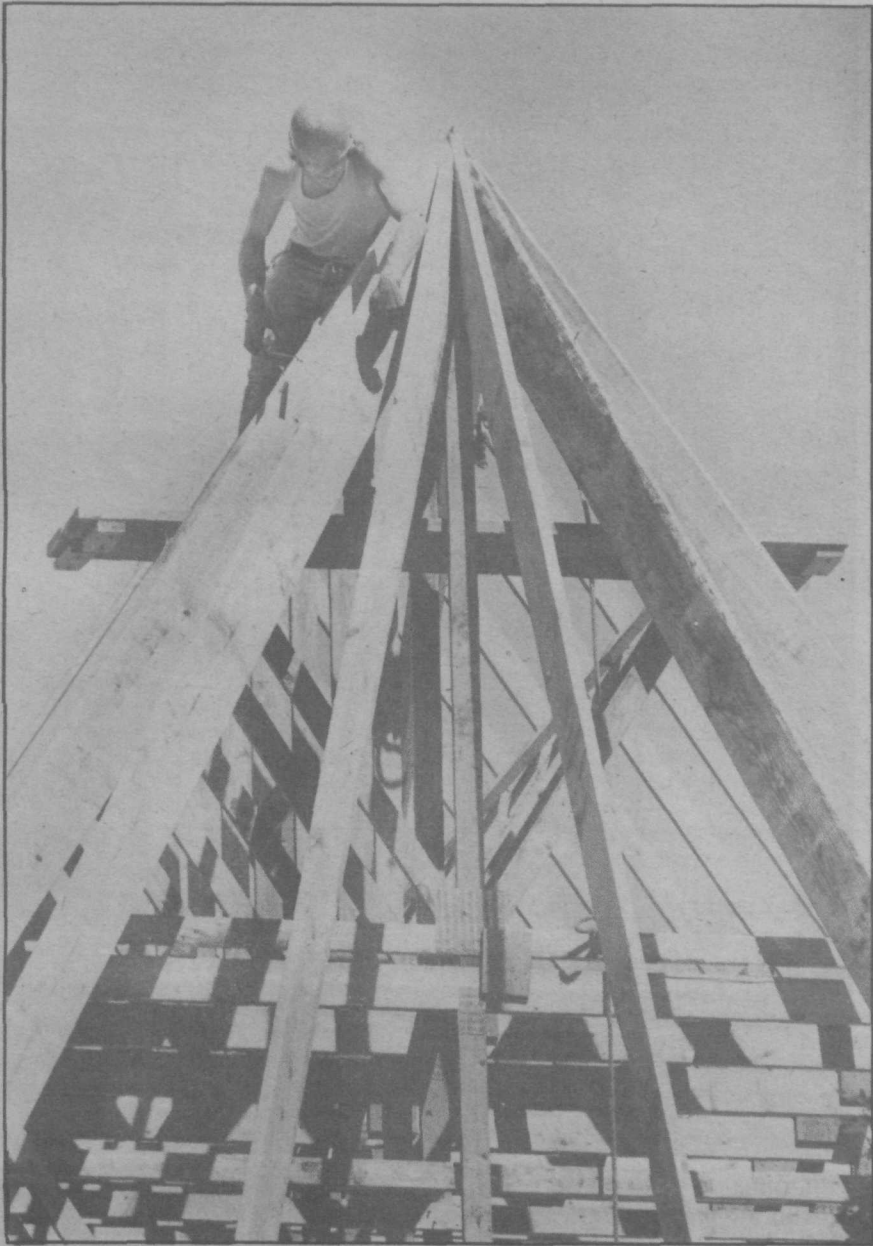
And then, just as suddenly, it no longer looked that way. A closer reading suggested nothing much had changed in the regulations.

In the end, this experience amounted to just another day of having encouragement boosted and dashed for this 61-year-old



Eve Paul

Pinnacle



Peter Morenus

Brian O'Connor of John J. Pausley Contractors works on the roof of Akwe:kon, the new home of the American Indian Program, which is expected to open for occupancy this fall. Exterior portions of the building, facing in four compass directions, will be decorated with symbolic details from famous Iroquois wampum belts.

Fish-farming techniques to be taught here June 29

Techniques for raising fish indoors in any climate or location, and for processing and marketing them, will be taught in a daylong workshop by the Cornell Aquaculture Program and Cornell Cooperative Extension from 8:30 a.m. to 4:30 p.m. on Saturday, June 29, in 125 Riley-Robb Hall on campus.

The workshop is a technical introduction for anyone interested in aquaculture, including farmers who are considering fish as a supplement or alternative to their current crops, said workshop organizer Michael B. Timmons, associate professor of agricultural and biological engineering.

"Fish consumption is rising in the United States at the same time that 'native' resources of fish are being depleted, and the public is becoming more concerned about water pollution," said Timmons. "Aquaculture is a way of supplementing the native fisheries with a wholesome product that the

public can rely on."

Specialists in the Aquaculture Program have developed an Intensive Water Reuse System that can produce fish year-round in any climate and location. Unlike conventional fish-farming methods that rely on large amounts of surface or ground water, the Cornell system of indoor tanks and filters reuses nearly 100 percent of the water and produces market-sized fish, such as brook trout and Atlantic salmon, in nine months.

The system will be demonstrated at the workshop, which also includes presentations on fish-health management, feeding and processing, human nutrition, starting an aquaculture business and participation in fish-marketing cooperatives.

Registration information on the workshop, which costs \$25 per person and includes a lunch of aquaculture products, is available by calling 255-2280.

Science and environment was topic of Pew program

Space exploration and Earth preservation, the oceans' climate change, Hudson River cleanup and the media's depiction of environmental risk were among the topics for a symposium, "Science Education and the Protection of the Environment," June 17 and 18 at Manhattan College.

Some 250 scientists, educators and students were expected for the symposium, which was sponsored by the New York State Cluster of the Pew Program in Undergraduate Science Education.

"Environmental issues have received a great deal of attention in recent years, but hardly anyone is addressing the problem of how to teach the environmental sciences to our students and how to communicate the issues to the public," said Yervant Terzian, chairman of Cornell's Department of Astronomy and director of the Pew science program in New York state.

Key presentations included:

- "Exploring Other Worlds and Protecting this One: The Connection" by Carl Sagan, the David Duncan Professor of Astronomy and Space Sciences and director of the Laboratory of Planetary Studies.

- "The Role of the Oceans in Climate Change" by Wallace Broecker, the Newberry Professor of Geology at Columbia's Lamont-Doherty Geological Observatory.

- "An Environmental Story: The Hudson River and its Cleanup" by Donald O'Connor, the Distinguished Professor of Civil Engineering at Manhattan College.

- "Environmental Risk and the Media" by Dorothy Nelkin, a professor of sociology at New York University.

- "Science Education and Environmental Understanding" by Albert Appleton, the commissioner of the New York City Department of Environmental Education.

Students put their classwork to the test in Washington, D.C.

For Jennifer Grindle, the spring of 1992 looks awesome. That's when she will graduate into the world of work from Cornell.

But Grindle, 20, from Plattsburgh, N.Y., and 10 other students from the School of Industrial and Labor Relations spent the 1991 spring semester developing professional contacts they never could make on campus.

They put their classwork to the test in Washington, D.C., by serving as labor interns in corporations, law firms, professional organizations and the Senate Labor Committee chaired by Sen. Edward M. Kennedy (D-Mass.).

They were enrolled in a course taught in Washington by two ILR professors, Ronald L. Seeber and Robert N. Stern, with the assistance of Michael Wyatt, associate deputy U.S. secretary of labor.

Offered to juniors and seniors, the course carries a lofty title: "Special Topics in Collective Bargaining, Labor Law and Legislation: Public Regulation of Work and Labor Relations."

But it is accompanied by such down-to-earth features as a guidebook identifying Washington bars that provide free appetizers and listing other budget shortcuts. Living on the cheap is important to these students, because some of them work for free, although others receive stipends as high as \$500 a week.

Two of this spring's 11 students turned their internships into full-time employment. "Each year, some of the students are offered jobs by the organizations they intern with," said Cleve Daniel, a professor of American labor history and director of ILR's off-campus credit program. "Internships look good on student resumes, and they give students a leg up on future employment."

Grindle agreed. "With the recession, contacts are very important in looking for a job," she reported from the Washington office of the Institute for a Drug-Free

Workplace, a non-profit organization where she worked during the first half of 1991.

"I've made some good contacts here and a perspective on what it will be like when I leave school next year. It's exciting coming into Washington from the suburbs every day and meeting influential people."

"In the office, I write newsletters, do research on drug testing in the postal service and small businesses, keep up with state legislation on drug testing in the workplace, and write letters to companies, seeking support for the institute and keeping them up to date on our work."

His internship put Louis Maslow, 21, Bedford, N.Y., into Edward Kennedy's U.S. Senate labor committee. Kennedy's assignments on Capitol Hill are so extensive that 70 interns work with his staff. All the interns met briefly with Kennedy and were photographed with him.

Maslow worked with Kennedy's chief labor counsel during the 1991 spring railroad strike. "My internship enabled me to see the levels that legislation goes through, starting with an idea until it is actually signed into law," the Cornell student said.

He collected data from the Department of Labor, talked with constituents who came to the office with problems and handled telephone calls from union people all over the country.

Ann Benedetto, 20, Albany, N.Y., spent her semester in Washington in the law firm of McGuinness & Williams, specialists in labor law, where she reported, "I was treated as a professional."

She added: "I was able to apply in a real-world environment what I learned during the first two years in ILR." Her real-world assignments included attending Congressional hearings on the Mexico free-trade proposal and legislation dealing with replacement of striking workers.

About 40 students have applied for intern study this coming autumn. In addition to Washington, the program offers work in New York City, Albany, Philadelphia, Chi-

cago, Houston and San Francisco.

The course is one of many offered by Cornell-in-Washington, an off-campus study program for Cornell students majoring in a number of academic disciplines. During the spring 1991 semester, 56 Cornell undergraduate students studied in Washington. The university also operates a Cornell Abroad program, and this spring about 250 Cornell undergraduates were studying in 35 nations overseas.

In the ILR program, Doug Madenberg, 21, Huntington Station, Long Island, spent a semester with Mobil Oil Corp. in its employee relations department in Washington.

"Before I worked at Mobil, I had had a lot of experience in the classroom but never the chance for an experience in a Fortune 500 company," he said.

He spent his semester at Mobil working on contract administration, non-union wage agreements, issues relating to equal employment opportunity and researching random drug testing.

Because the students live in Washington on tight personal budgets, three ILR students — Eric Einhorn, Ruth Seroussi and Erin Webster — prepared for their classmates a 10-page report entitled "Your

Guide to Survival in Washington, D.C.," with suggestions on finding affordable housing, shopping, eating, happy hours and dancing. Tips include:

- The Brickskeller near Dupont Circle offers 500 brands of beer from around the world.

- Champions Sports Bar in Georgetown lays out a free buffet on Fridays.

- On Saturdays, the Mid-Town Bar and Grill on M Street features "Beat the Clock" (prices go up as time goes by).

- The Fairfax Store — "the friendliest people you will ever meet own the place."

- For dancing, the Dome on M Street is "very cheesy," the Fifth Column on P Street is "mildly cheesy" and Tombs on N Street is "very cool and mellow."

- If you want to exercise in Rock Creek Park "don't ever go at night or even alone during the day."

In Washington, the interns work in an office 28 to 30 hours a week, attend seminars conducted on Thursday afternoons by Cornell faculty or Washington labor practitioners, read assigned books and write a research paper on a public-policy issue related to employment.

— Albert E. Kaff

Eve Paul *continued from page 3*

president asked Paul to launch a litigation program to fight restrictive abortion laws.

"In those days, we won all the cases, when they reached the Supreme Court," she said. But the favor of the court has eroded, she notes, from the original 7-2 vote in favor of Roe vs. Wade to what is apparently now a 5-4 line-up against it.

In response to the lost favor of the courts, Paul and others who support abortion rights are increasing pressure on Congress. But Paul will not bet on short-term legislative success, either.

"I can't say I'm optimistic about the next

few years," she said. "But I am optimistic about the future."

How does Paul remain optimistic when her career spans the birth and threatened death of the Roe vs. Wade ruling?

She looks to the kinds of young women who work for her.

"They're bright and articulate and are not going to go away," she said. "I think it is most important to develop the consciousness and commitment of the women who can effect social change. It gives me a sense of continuity."

— Lisa Bennett

TV expert sees declining quality in children's programs

A decline in the quality of children's television over the past 20 years can be directly attributed to the victory of commercial interests over educational ones, according to two university psychologists who regularly monitor television programs.

In the last two decades there has been a steady decrease in the number of live programs aimed at children; an increase in glitzy cartoons; more violence; a negligible increase in female roles; and more programs with a product tie-in, making them, in effect, program-length commercials, said John Condry, a professor of human development and family studies here.

He and Cynthia Schiebe, an assistant professor of psychology at Ithaca College, presented their latest findings at the annual meeting of the International Communication Association in Chicago this spring.

"The biggest issue is quality, and it's getting worse," Condry said. "We used to have live shows like 'Howdy Doody' and 'Captain Kangaroo,' which spoke to children at a level they understood, with words they knew and concepts they were grappling with."

"That's all gone. This fall, when Pee-wee Herman is pulled, there won't be a single live show for children on any of the three major networks. They've all been replaced by cheaply made cartoons made to hold kids' attention just long enough to sell them something."

There has been a dramatic increase in the amount of time devoted to commercials on Saturday-morning programs, the psychologists report. Advertisements now average nearly 11 minutes of every hour.

What's more, most children's programs on network-affiliated and independent stations are related to products reflecting program characters, such as Teen-age Mutant Ninja Turtles and GI Joe. That trend has increased substantially over the past two decades, Condry said.

Children's television still favors boy characters over girl characters, Condry said, for a simple, commercial reason: Television executives acknowledge that boys will watch shows only with boys in leading roles, while girls will watch girl leads or boy leads.

Meanwhile, Condry said, advertisers exploit the gender-role development of young-



John Condry

Charles Harrington

sters by presenting the world in an oversimplified way: men and boys are active, women and girls are passive; boys lead, girls follow; boys are interested in activity, girls only in their appearances or the ap-

pearances of their dolls.

"This commercial enterprise is doing its thing regardless of the welfare of children or society. As a psychologist, I see children being influenced, and to me what I see is

not in the public interest," Condry said. "Commercials are extraordinarily sex-typed compared with the world we live in where all kinds of barriers are coming down."

One improvement in children's television in recent years has been the introduction of minority characters on superhero shows, Condry said.

Condry and Schiebe argued that as television has become increasingly commercial, the content of programs has come to exist only to attract children's attention.

"Most of the programming out there for children is written by adults for other adults. Yet it holds kids' attention because it's technically sophisticated. It exploits their attention spans."

"As research shows, kids need a high rate of scene change, animation, puppets, loud and strange noises, unusual sights and sounds every few seconds," Condry said.

"The average 3-year-old looks up and away from a TV set 150 times in an hour. That's how children watch TV. That's how they watch most things."

"So these programs make something go 'Boing!' every few seconds to pull the kids back to the screen."

"Who cares about content as long as the program is fast, loud and attention-getting, so long as the children keep monitoring the screen?"

Public television shows such as "Sesame Street," "Mr. Rogers' Neighborhood," "Nickelodeon" and "Square One TV" offer an alternative, but the majority of children still watch commercial stations, Condry said.

It is interesting to note, he added, that the networks' share of the viewing audience is dropping. Ten years ago, 90 percent of audiences watched the major networks. Now, only 60 percent watch the networks, while 40 percent watch cable television, public television or videotapes.

Still, the average American child watches between three and four hours of television a day.

Condry is an adviser to Action for Children's Television, a Cambridge, Mass.-based consumer advocacy organization. He has been invited to testify before the Federal Communications Commission and the Federal Trade Commission.

—Carole Stone

Study finds alarming eating patterns among athletes and women at college

While experts have estimated that 35 to 50 percent of college women have chronic obsessive-eating problems, new nutrition studies here reveal that athletes and female nutrition majors suffer even worse eating problems.

The research shows that 50 to 75 percent of a sample of women in college athletics and in nutrition programs have bulimic or anorexic episodes and that 15 to 20 percent of a sample of men in college athletics have eating problems that may put their health at risk.

Wanda Koszewski, director of the dietetics program in the Division of Nutritional Sciences, hopes to publish her study of athletes in an upcoming Journal of the American Dietetic Association, and she has just completed preliminary analysis of her study of female nutrition majors.

The research revealed unexpected problems with nutrition and weight loss among young people who should be experts in the field, said Koszewski. Although athletes and nutrition majors are more attentive to nutrition information and seemingly better informed, they fail to apply their knowledge to their lives, she said. The students' problems stem from society's preoccupations about nutrition, she added.

"As our nation has become increasingly obsessed with slimness, the stigma against obesity has intensified," said Koszewski, a registered dietitian with a Ph.D. in dietetics. "More and more women, particularly college women, have become chronically obsessed with their body image and eating patterns, which may not only jeopardize their current health but possibly their future health as well."

Koszewski's study of dietary beliefs and practices of college student athletes and their coaches consisted of a survey of 138 males and females in California. It was motivated by studies by other researchers showing that eating disorders among female athletes in general was "extremely high," especially among runners and gymnasts.

The Cornell dietitian found that while athletes "would do anything to give themselves the winning edge, they didn't really understand the relationship between their diet and their performance."

Specifically, her study found that:

- Male athletes erroneously believed that high protein intake would boost their muscle mass. Many were ingesting two to three times the recommended dietary allowances for protein, thereby stressing their kidneys and liver but doing nothing for their muscles.

- "Exercise, not protein, builds muscle, as long as protein

intake is adequate," Koszewski says. "And adequate protein intake is much less than what athletes and their coaches believed."

- Most athletes took vitamin/mineral or protein supplements unnecessarily.

- Athletes obtained most of their nutrition information from fellow athletes or from their coaches; both sources proved to be seriously misinformed about nutrition, specifically about the recommendation for fat intake, how percent body fat relates to performance, and the need for supplements and high protein intake.

- In an effort to reduce body fat, the already underweight female athletes — particularly gymnasts and volleyball players — were ingesting about 30 percent fewer calories than recommended.

"These women were not only misinformed about how to lose or maintain body fat, but were putting themselves at risk for serious health problems in the future, particularly osteoporosis and anemia," Koszewski said.

Koszewski is completing a study to examine whether women who majored in nutrition at 25 colleges fared any better. Although the data are not yet complete, Koszewski says that her preliminary results show that more than 50 percent of the women enrolled in such programs have eating problems, with some schools having even higher rates.

"Many of these women are underweight yet want to continue to lose weight," said Koszewski. "They are compulsive eaters who enroll in nutrition programs because they are so interested in eating and are obsessed with a fear of fat." She pointed to the need for better identification of students with eating problems and intervention programs in nutrition education programs.

Last year, Koszewski reported a study of 130 women assessing how well nutrition-education programs changed college women's eating attitudes and behaviors. Although the women were health-field majors, they still missed questions, particularly those dealing with fad diets, dieting techniques and body-weight fluctuations.

Educational presentations to the students were not very effective in improving the eating attitudes among students, she found. She concluded that, while educational programs can improve eating attitudes and behaviors for some students, a single attempt probably wouldn't work.

"An effective intervention would have to be continuous and reinforced regularly," she said.

—Susan S. Lang

Direct loans from school to student supported by CU

Donald A. Saleh, Cornell's director of financial aid and student employment, speaking for 32 leading private institutions, suggested to Congress on June 12 that colleges and universities try direct lending of federal Stafford Loan funds rather than leaving the job to banks.

He said Cornell would volunteer for a pilot test of such an optional plan and suggested that any savings — of funds now given the lending banks during the borrowers' student years — be plowed back into federal grant funds for needy students.

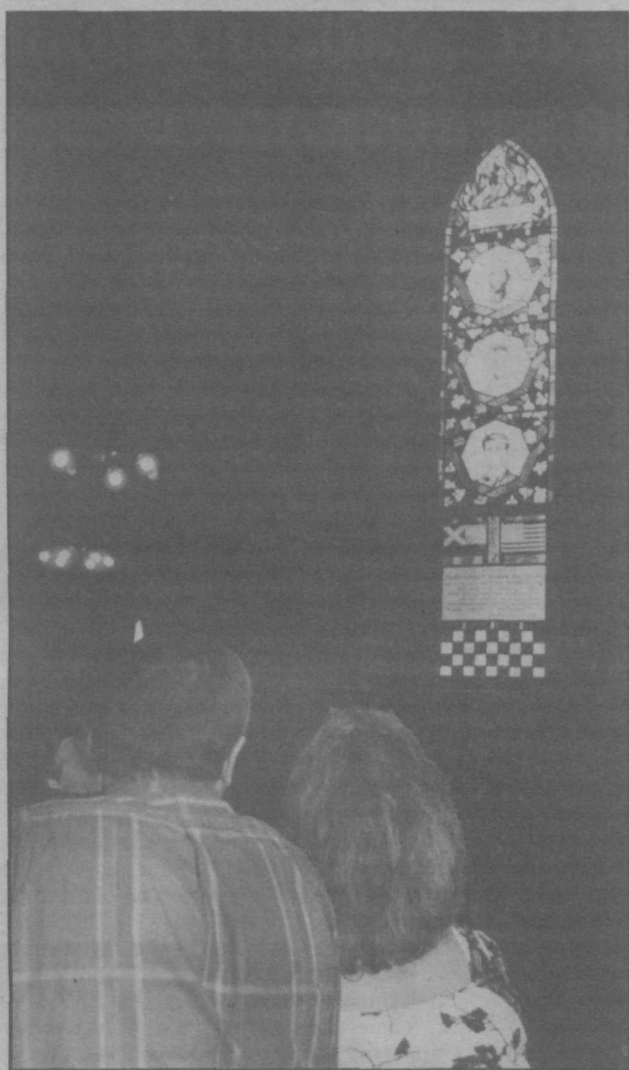
"For institutions like Cornell that enroll students from virtually every state," he said, "direct lending would ease the administrative burdens of dealing with 50 different guarantee agencies and thousands of different lenders, making the entire process a simplified one for students."

Saleh addressed Rep. William D. Ford's Subcommittee on Postsecondary Education. The subcommittee is considering reauthorizing the Higher Education Act, which concerns both grants and loans to students. Saleh chairs the reauthorization task force of the Consortium on Financing Higher Education (COFHE), whose 32 members have 52,000 students — out of their 115,000 undergraduates — receiving financial aid.

Saleh's testimony also favored increasing the limits of Stafford loans (now a maximum of \$4,000 a year for undergraduates and \$7,500 for graduate students), cutting federal red tape for institutions with low loan-default rates (Cornell's is under 1 percent on \$35 million a year in Stafford loans), making need-based aid more available to the middle class, and letting institutions lend more of their own funds as a match of federal Perkins loans.

He also voiced COFHE support for a national college-savings bank proposed at an earlier session of the subcommittee.

The COFHE institutions' 52,000 aid-receiving students share \$515 million in grants, 80 percent of the funds for which come from the institutions themselves.



Peter Morenus

Alumni dedicate window honoring civil-rights workers

More than 100 alumni gathered in Sage Chapel on June 7 during reunions to dedicate a stained-glass window (above) to the memory of Michael Schwerner, Andrew Goodman and James E. Chaney, civil-rights workers who were killed in Mississippi in 1964. Their story was told by the film, "Mississippi Burning."

Schwerner was a member of the Class of 1961, which presented the window to the university; Goodman's parents attended Cornell, and his mother spoke at the dedication; Chaney was working for Mississippi's Student Non-Violent Coordinating Committee.

The window in Sage Chapel depicts the faces of the three men, with the words: "In memory of James E. Chaney, Andrew Goodman and our classmate, Michael Schwerner, who were slain during the 1964 voter registration drive in Mississippi, and all others who died for the advancement of civil rights and racial equality in our country."

Reunion *continued from page 1*

Rhodes said that discovery is "not achieved in isolation but in a community of learning and diversity."

In his talk on creativity, Hoffmann said that in the "fertile murk" from which creativity emerges "is the tension of the master-apprentice relationship, so essential to creation: the surrender to authority, yes, authority, as a way to learning, to be followed, inevitably, by eventual rebellion."

Feldshuh stressed the need for a learning atmosphere that, along with rationality, cultivates the intuitive leap that so often culminates in a creative act. He said: "Cornell is a perfect place for vigorous research, inter-creativity, a place that can cultivate" the essential aspects of creativity.

Only the day before (June 7), a reunion speech in Bailey Hall by former U.S. Ambassador Sol M. Linowitz, Law '38, triggered this observation by a member of the audience:

"This kind of thing — this kind of wisdom — never really sinks in until someone lays it out for you. That is the beauty of a place like this. People steering you in fascinating directions."

Linowitz, a former chairman of Xerox Corp. and now senior counsel of a Washington D.C.-based international law firm, gave the annual Spencer T. and Ann W. Olin Address. In his talk, titled "Countdown in the Americas," he said this country has a "historic opportunity to construct a hemispheric agenda" around a common economic need based on democratic rule.

Latin American nations are struggling with years of economic depression and must be treated with political and financial compassion, he said.

But all thought and no play is not what Cornell is all about, particularly at reunion time, with dance bands blaring into the wee hours of the morning, early-morning class breakfasts, athletic events ranging from foot races for aerobic addicts to croquet for the more sedate, and from lacrosse contests to crew races for those who want to taunt their muscle memories.

Amid the hubbub, Grace Kuchler Foster '41, and her husband, Al '39, Ph. D. '46, made their way to the Fuertes

Yes, an honest person can survive in a material world, economist says

Tongue in cheek, Robert H. Frank advised Cornell alumni to withhold support from any college that fails to include the prisoner's dilemma in its curriculum.

Frank, a professor of economics in the Johnson Graduate School of Management and in the Department of Economics in the College of Arts and Sciences, maintained that the prisoner's dilemma provides a yes answer to the question that he posed to his 100 listeners in an Alumni Reunion Weekend lecture on June 7: "Can an Honest Person Survive in the Material World?"

Frank flashed a drawing of his prisoner's dilemma game on a screen (see accompanying diagram).

If both player X and player Y cooperate in this game, each gets four points. If both defect, each gets only two points. "It is clearly better if both cooperate than if both defect," Frank said. "Yet if Y cooperates, X can get an even higher payoff — six units — by defecting. Likewise, if X cooperates, Y can get a six-unit payoff by defecting. The irony of this game is that each player has a selfish motive for defecting, yet when both defect, each gets a lower payoff than if both had cooperated."

Experiments with the prisoner's dilemma show that people often find the lure of defection to be irresistible, the economist said.

"This simple game helps explain why we shout at cocktail parties even though we could hear one another better if we all lowered our voices," he said, "why we emit large quantities of pollution even though we would all be happier with a cleaner environment, and why nations engage in military arms races even though each side would be better off if neither side had armaments."

Frank's main point was that cooperators can identify one another by means of various observable symptoms of the emotions that motivate cooperation, and that this enables them to solve prisoner's dilemmas.

"Because people are pretty good judges of character, cooperators are able to interact selectively with one another, thereby reaping the benefits of cooperation while avoiding exploitation by defectors. Thus, an honest person can indeed survive in the material world."

This conclusion, he argued, is at odds with the conventional economic wisdom that "people are selfish and will do all that they can to promote their self-interest." He quoted one economist who estimated that the "average human being is 95 percent selfish in the narrow sense of the term."

Frank called the prisoner's dilemma game a "powerful tool. If your college does not include it in their curriculum, don't donate to them."

With the humor that punctuated his lecture, Frank projected cartoons on a classroom screen to illustrate self-interest, including one of a grandfather taking his grandson for a walk in the woods and telling him: "It's good to know about trees. Just remember, nobody ever made big money knowing about trees."

Frank conceded that "self-interest is an important human element." For example, couples remain married when they believe that they are in love, "but economists say that the divorce rate is higher in states with good welfare benefits."

Then Frank outlined why he believes that "there are important exceptions to economic models of self-interest."

• When a commercial airliner crashed into the ice-filled Potomac River in Washington, D.C., in mid-winter, a pas-

serby leaped into the water and rescued one of the five survivors.

• Although many were killed in the fighting and the financial costs of the war were high, the battle between the British and the Argentines for the Falkland Islands was not economically motivated, because the territory had no economic or strategic value. "It was like two bald men fighting over a comb. But it is hard to find any British who opposed the cost of standing up to the Argentines."

• In an academic experiment, a researcher left wallets containing a small amount of money and identification cards on sidewalks. More than half the wallets were returned with the cash by finders who took the trouble to go to a post office and mail them.

• Soldiers dive on live hand grenades rather than flee to save themselves.

• At the University of Wisconsin, some people who were resting after donating their blood suddenly were asked if they also would be willing to have their blood tested to determine if they could donate bone marrow to a mother

Prisoner's Dilemma

		X	
		Cooperate	Defect
Y	Cooperate	4 for each	0 for Y 6 for X
	Defect	6 for Y 0 for X	2 for each

dying of leukemia, but who was unknown to them. Although the donor would be required to submit to a painful surgical procedure and overnight hospitalization, 88 percent of the people agreed to be tested.

• A tip left at a restaurant near home is an investment in good service in the future. But travelers leave tips at highway diners they may never visit again.

Again inspiring the frequent audience laughter that lightened his lecture, Frank took a disparaging swipe at his own discipline by displaying a bar graph that showed that economists give little to charity.

But, perhaps unwittingly, economist Frank demonstrated that self-interest is not his only personal motivator. In introducing the economist, Alan G. Merten, dean of the Johnson School, told the audience that "Bob Frank probably will mention some of the books that he has written." To promote sales, authors usually do just that.

Frank's most recent book, "Passions Within Reason: The Strategic Role of the Emotions" (New York, W.W. Norton, 1988, \$19.95) has been quoted in The New York Times and other newspapers throughout the country.

Yet he talked for 60 minutes without citing any of his books.

—Albert E. Koff

Observatory to look at the stars as they did on dates more than 50 years ago. They were married in 1941, and it was the first time they had returned to the observatory. They live in Norris, Tenn.

"It was a cheap date for him," she said in way that seemed to twit him about something. "Well, it was either a walk up here or a walk around Beebe Lake," he said.

Perhaps it was the look back in time that reminded Mrs. Foster to mention that her father, George Kuchler, was one of the five members of the Class of 1912 that skated the length of Cayuga Lake in the winter of their senior year, the last time that the feat has been accomplished.

"And I understand it can never happen again because of the heat from the power plant [at Bolton Point]," she said.

While the Fosters were stargazing, Rosalie Ulrich Rosenberger '21 was making the rounds of the various class tents, leaving a wake of exhausted dancing partners. Rosenberger, who lives in Rockville Centre, N.Y., retired in January from law practice. She turned 92 this month and now focuses most of her attention on international ballroom competition, having given up golf last year.

Rosenberger, as president of the Class of 1921, is largely responsible for the record-breaking turnout of 10 members for a 70th reunion class. The previous record was seven.

"I'm already working on the 75th reunion," she quickly pointed out as she ate lunch with her classmates.

Acknowledging that Rosenberger graduated from the Law School, classmate Agnes Meehan Hallinan of Sun City, Ariz., puckishly commented that "the Law School must be really hard up for money. They mailed me some material for the first time in my life this year." She explained she started out in law but switched to the Arts College in 1919.

The class of 1981 had the most representation of any of the 14 reuniting classes, with 370 classmates returning.

"To see my friends, see the campus, to remember old times," said Sandy Goldstein '81, capturing the motivation behind most of those who attended reunions.

Emerson Cole '41, now in retirement in Pinehurst, N.C., but active as a FM-radio disc jockey for a show featuring "big band" music, explained how he and a friend started "Be-what is now a student-owned radio station, WVBR. Because of FCC regulations, we had to restrict our signal to the campus." He explained in confusing technical terms what boiled down to a combination of the use of telephone lines and the connecting of a radio to water pipes.

"It worked fine," he said.

During one of the four consecutive sun-drenched days that shown down on the more than 5,000 alumni and guests, retired architect John Milmo '31, of White Plains, N.Y., walked about campus with his wife. One of six brothers and sisters to graduate from Cornell, he said his mother, Margaret Mooney Milmo, Class of 1886, saw the cornerstone of Sage College laid when she was 7 years old.

Family legend has it that when someone tried to shoosh her and a playmate away from the podium area during a Cornell ceremony, either President Andrew D. White or Ezra Cornell interceded, saying, "Let them stay there; they are the future of Cornell."

When Milmo attended her 35th reunion in 1921, she said, she was asked to follow the custom of the time and relate what she had accomplished since graduating. She reported that she had not been able to accomplish much because she was too busy raising eight children, four who graduated from Cornell. (Later, two more children graduated from the university.)

Upon the motion of a classmate, she was then immediately and unanimously elected the person in the Class of 1886 who had done the most for Cornell.

Not so unrelated to all this are the concluding comments of Hoffmann in his talk on creativity when he said: "Another key is to act, in any way. The marvelous thing about human creation is that it has a way of growing beyond any intention of its author."

That is why "any action is scary, but act we must."

—Martin B. Sile

Xeriscaping

Drought-resistant gardens save water, money and time

Warm-weather water use could be reduced by about one-third if more homeowners learned to apply the techniques of xeriscaping (pronounced zir'-e-skaping) — using landscape designs and horticultural methods that minimize water use, says a Cornell landscape horticulturist.

With the recent droughts of the late 1980s, rising water costs and dwindling clean-water supplies, xeriscape gardening is becoming ever more important, said Donald A. Rakow, an assistant professor of landscape horticulture in the College of Agriculture and Life Sciences.

Consumers and professional landscapers not only can reduce their water needs by applying xeriscaping principles, but also can protect their gardens from dry spells, save money, energy and time, as well as reduce pest problems, erosion, plant stress, weed growth and maintenance needs, he said.

Rakow suggests that homeowners consider these facts:

- Homeowners tend to apply about twice as much water on their landscapes as they really need.
- More than half of the water applied with sprinklers and other overhead devices is wasted on non-targeted plants, sidewalks and driveways.
- Up to 40 percent of the total water used during the growing season is for landscape irrigation, yet this amount could be reduced significantly.

"Xeriscaping doesn't mean having to settle for dull colors and cacti," emphasized Rakow. "Xeriscaped gardens can be beautiful. They include drought-resistant plants but also plantings that require more water but that are clustered so that only a small portion of the garden needs to be heavily watered."

Rakow has helped design an award-winning demonstration xeriscape garden at Cornell Cooperative Extension in Nassau County along with Cornell Cooperative Extension agent Richard Weir III. He has also studied the opportunities to reduce water use through various mulches, and tree and plant selection. He has found that four inches of mulch can reduce water needs by 25 to 45 percent by preventing evaporation. He has also found that plants with pubescent (hairy) and smaller foliage need to require less water.

Even though the Northeast usually gets plenty of rain, one or two summers each decade tends to be excessively dry, Rakow says. The growing seasons of 1987 and 1988, for example, were very dry, and many plants suffered. Drought damage includes brown leaves, shriveled flowers, dying branches and limbs, and fewer blossoms.



Beth Helfont

Don Rakow examines a sedum, a plant native to the Southwest, in a xeriscape garden in Nassau County.

Plants that are stressed by lack of water also grow less, become weakened and are more susceptible to insects, diseases and winter-cold damage.

"Even wet seasons often have dry spells that can stress many plants," Rakow pointed out. In 1989, for example, the growing season was quite wet, yet at least 10 consecutive days were very dry. "Any period with 10 dry days stresses plants that are not drought-tolerant," he said.

To xeriscape a garden, seven principles should be applied, he said. Plant selection is the only guideline that may vary from region to region.

- Proper design: group plants not only by how well they look together but also by their similar water needs.

- Soil preparation: use plenty of organic matter such as peat moss or compost in preparing the soil.

- Consider the reduction of areas devoted to turfgrass to those where it is needed for aesthetic and recreational uses. Since turfgrass is by far the largest user of water in the landscape, substitute some areas with ground covers, mulches, ornamental grasses or flower beds, or use newer, drought-resistant turfgrass types, such as improved tall fescues. Keep turfgrass areas separate from other plantings because they have different water requirements.

- Use about 4 inches of mulch, such as wood chips or shredded bark. Mulches also reduce weeds, help prevent

erosion and contribute to the organic matter in the soil.

- Choose low-water-demand plants as much as possible. Common flowering plants such as petunias, pansies, impatiens, coleus and begonias require a lot of water. Good substitutions include yarrow, sedum, veronica, gazania, gaillardia, bee balm and ornamental grasses such as miscanthus and pennisetum mixed in flower beds.

- Adopt efficient watering systems. Rakow recommends drip irrigation, which specifically targets plants that require watering. Drip systems release water at a pressure and rate at which it will be absorbed. Other recommended watering systems include soaker and bubbler systems.

- Good maintenance will not only promote plant health but also water efficiency. Prune, fertilize and divide plants as needed. An advantage of xeriscape gardens, however, is that they may require as much as 50 percent less maintenance by needing less mowing, only once-a-year mulching, fewer waterings and less replacement of weak and unadapted plants.

"Basically, a well-designed and maintained xeriscape garden also incorporates sound horticultural principles that will produce an iron-clad garden that is relatively guaranteed to do well and require less maintenance than a traditional garden," Rakow said.

— Susan S. Lang

Astronomers discover first metal asteroid

By bouncing radar beams off the surface of a small asteroid that approached to within 20 million miles of the Earth, scientists using the giant Arecibo radio/radar telescope have found the first firm evidence of the existence of near-Earth metallic asteroids.

In discovering the metallic composition of the asteroid, called 1986 DA, the scientists forged a link between such asteroids and nickel-iron meteorites long known to bombard Earth.

They theorize that both nickel-iron asteroids and meteorites must have been parts of one or more ancient asteroids large enough to have had cores that melted and differentiated, forming an inner metallic core similar to Earth's.

Such ancient asteroids must have undergone cataclysmic collisions that disrupted them, spewing forth the fragments that form the current population of metallic asteroids and meteorites.

The discovery of such objects as 1986 DA could also have an eventual economic payoff for future space missions, pointed out the scientists.

While meteoritic metal is mostly iron and nickel, it also contains substantial concentrations of precious and strategic metals.

If meteoritic metal abundances also apply to 1986 DA, the asteroid contains some 100 billion tons of iron, one billion tons of nickel, 100,000 tons of platinum and 10,000 tons of gold, they calculated.

The researchers published their findings in the June 7 issue of Science. They are Steven Ostro, Donald Campbell, John Chandler, Alice Hine, Scott Hudson, Keith Thomas and Irwin Shapiro. Ostro and Thomas are with the Jet Propulsion Laboratory (JPL) of the California Institute of

Technology; Campbell and Hine are with the National Astronomy and Ionosphere Center (NAIC) at Cornell; Chandler and Shapiro are with the Harvard-Smithsonian Center for Astrophysics; and Hudson is with Washington State University.

The asteroid 1986 DA is one of only two possibly metal "near-Earth" asteroids yet identified on the basis of their optical color, the other one being code-named 1986 EB. As the code names indicate, both were discovered in 1986, with 1986 DA discovered first, on Feb. 16 in Japan.

Although the scientists first observed the asteroid using radar in 1986, soon after its discovery, they needed almost five years to analyze the data and "build up a statistical population of observed asteroids," said Ostro.

Only then was it clear that the asteroid's albedo, or reflected brightness, is extremely high, leading to the conclusion about its composition.

It was not possible for the Arecibo telescope to observe 1986 EB.

In their observations, the scientists transmitted powerful radar waves from Arecibo's 20-acre dish and used the reflected signals to determine the radar "brightness," as well as the surface roughness, shape and orbital characteristics.

Metal concentration has a dramatic effect on radar reflectivity, with high reflectivities uniquely indicating high metal content, pointed out the scientists.

Unlike optical observations, the long wavelengths of the radar waves penetrate any thin outer covering, making the radar reflectivity, thus, a better indicator of the bulk composition, said the scientists.

Orbiting from just beyond Earth to just inside Jupiter's orbit and back every 4.7

years, the 2-kilometer (1.6-mile-wide) asteroid shows a radar brightness "far greater than any of the five dozen asteroids we have observed before or since," said Ostro. "This supports the hypothesis that it is a large lump of iron, nickel and other metals."

The scientists calculated that over tens of thousands of years, the asteroid's unstable orbit might intersect that of Earth, which is why it has been dubbed a "near-Earth asteroid."

Radar observations showed the asteroid to have a relatively smooth surface when measured at centimeter-to-meter scales, but to be extremely irregular at larger scales of 10-to-100-meters.

The National Astronomy and Ionosphere Center, which is headquartered at Cornell, has recently received approval for a major upgrade of the Arecibo telescope, including a new 1-million-watt radar system for solar system studies, said Campbell.

The upgrade will increase sensitivity for radar observations of small asteroids like 1986 DA by about 20-fold, he said, greatly increasing Arecibo's capability for studying such objects.

The upgrade also will include a 60-foot-high metal screen around the radio/radar dish to reduce thermal noise generated by the surrounding ground.

The upgrade is jointly funded by the National Science Foundation (NSF) and the National Aeronautics and Space Administration (NASA).

JPL is operated by Caltech for NASA, and the NAIC is operated by Cornell under a cooperative agreement with NSF with support from NASA for the planetary radar program.

— Dennis Meredith

Tomato geneticist joins research team on plant diseases

A Cornell specialist in gene-mapping, Associate Professor of Plant Breeding and Biometry Steven Tanksley, is one of 13 scientists at the core of a new biotechnology research center for investigating the nature of plant diseases.

Funded with a five-year, \$10.4 million grant from the National Science Foundation, the new Center for Engineering Plants for Resistance Against Pathogens (CEPRAP) will be based at the University of California, Davis.

The center will involve researchers from that institution as well as from Cornell, Washington University in St. Louis, the University of California at Berkeley and the Davis-based biotechnology company, Calgene Inc.

Scientists at CEPRAP plan to use the tomato plant as a model for their research. By studying molecular and genetic aspects of plant diseases in the tomato plant, for which there already exists a great deal of scientific information, CEPRAP researchers hope to learn how plants respond to disease-causing microorganisms such as bacteria, fungi and viruses, as well as the microscopic, soil-dwelling parasitic worms called nematodes.

UC Davis Chancellor Theodore L. Huxler, a former director of agricultural research at Cornell, said, "The center will support a unique blend of creative, fundamental research within the context of major real-world problems."

He said the center will develop new ways to combat diseases that cost farmers billions of dollars each year.

CALENDAR

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

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

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

DANCE

Cornell International Folkdancers

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

Teaching, 7:30 to 8 p.m.; request dancing, 8 to 9:30 p.m., June 21, June 28 and July 5, North Room, Willard Straight Hall.

Israeli Folkdancing

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

EXHIBITS

Johnson Art Museum

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

"Swimmers," an exhibition featuring more than 120 color and black-and-white images of more than 70 photographers from around the world will be on view from July 2 through Aug. 18. Photographers such as Harry Callahan, Henry Cartier-Bresson, Sylvia Plachy and Laurie Simmons explore the underwater terrain, revealing their enthusiasm for the act of swimming.

FILMS

Films listed below are sponsored by Cornell Cinema unless otherwise noted and are open to the public. All films are \$3.50 except weekend films (Friday and Saturday), which are \$4.50 (\$4 for students). All films are held in Willard Straight Theatre except where noted.

Thursday, 6/20

"Aliens" (1986), directed by James Cameron, with Sigourney Weaver, Michael Biehn and Paul Reiser, 7:15 p.m.

"Tong Tana," a documentary about the environmental battles waged by natives of the Borneo rainforest and a Swiss expatriate who lives among them, sponsored by International Studies, 7:30 p.m., Hollis Cornell Auditorium, Goldwin Smith Hall.

"Dances With Wolves" (1991), directed by Kevin Costner, with Kevin Costner, Mary McDonnell and Graham Greene, 9:20 p.m.

Friday, 6/21

"Day For Night" (1973), directed by Francois Truffaut, with Jacqueline Bisset and Jean-Pierre Leaud, 7:30 p.m.

"Dances With Wolves," 9:50 p.m.

Saturday, 6/22

"Strangers on a Train" (1951), directed by Alfred Hitchcock, with Farley Granger and Robert Walker, 7:30 p.m.

"Dances With Wolves," 9:35 p.m.

Sunday, 6/23

"Aliens," 9:45 p.m.

Monday, 6/24

"Strangers on a Train," 7:40 p.m.

"The Terminator" (1984), directed by James Cameron, with Arnold Schwarzenegger, Michael Biehn and Linda Ha-

milton, 9:45 p.m.

Tuesday, 6/25

"Kim Phuc," continuing story of the girl whose photo, taken as she ran from a napalm attack during the Vietnam War, became world famous; "The Secret Agent," a documentary on Agent Orange, media classroom B, Uris Library, 1:30 to 3 p.m. and 3:15 to 4:45 p.m.

"Scenes From the Surreal" (1990), animation by Jan Svankmajer and others, 7:30 p.m.

"Dances With Wolves," 9:30 p.m.

Wednesday, 6/26

"La Dolce Vita" (1961), directed by Federico Fellini, with Marcello Mastroianni, Anita Ekberg and Anouk Aimee, 7 p.m.

"How to Behave," a documentary in which Vietnamese film-maker Tran Van Thuy explores the concept of tu-te as seen through contemporary daily life in Vietnam, media classroom B, Uris Library, 7 to 8 p.m. and again 8:15 to 9:15.

"The Terminator," 10:25 p.m.

Thursday, 6/27

"The Blue Bird" (1918), directed by Maurice Tourneur, with musical accompaniment by David Borden, 7:30 p.m.

"The Hunt For Red October" (1990), directed by John McTiernan, with Sean Connery, Alec Baldwin and Sam McNeill, 10 p.m.

Friday, 6/28

"La Dolce Vita," 7:15 p.m.

"The Hunt For Red October," 10:40 p.m.

Saturday, 6/29

"The Magic Flute" (1975), directed by Ingmar Bergman, with Ulrik Cold, Josef Kostlinger and Erik Saeden, 7:35 p.m.

"Animal Crackers" (1930), directed by Victor Heerman, with Marx Brothers, Margaret Dumont and Lillian Roth, 10 p.m.

Sunday, 6/30

"Glory" (1989), directed by Edward Zwick, with Matthew Broderick and Denzel Washington, 9:30 p.m.

Monday, 7/1

"Turumba," feature film by Kidlat Tahimik, sponsored by the Southeast Asian Studies Summer Institute, 7:30 p.m., G02E Uris Hall.

"Roman Holiday" (1953), directed by William Wyler, with Gregory Peck, Audrey Hepburn and Eddie Albert, 7:30 p.m.

"Raising Arizona" (1987), directed by Joel Coen, with Holly Hunter and Nicholas Cage, 9:55 p.m.

Tuesday, 7/2

"Gentle Wind or Typhoon?" and "Negros: The Social Volcano," media classroom B, Uris Library, 1:30 and 3 p.m.

"Meetings With Remarkable Men" (1979), directed by Peter Brook, with Ahtol Fugard and Fragan Maksimovic, 7:30 p.m.

"The Hunt For Red October," 9:45 p.m.

Wednesday, 7/3

"Breathless" (1959), directed by Jean-Luc Godard, with Jean-Paul Belmondo and Jean Seberg, 7:45 p.m.

"Raising Arizona," 9:45 p.m.

Thursday, 7/4

"She's Gotta Have It" (1986), directed by Spike Lee, with Tracy Johns, Redmond Hicks and John Terrell, 7:45 p.m.

"Total Recall" (1990), directed by Paul Verhoeven, with Arnold Schwarzenegger and Ronny Cox, 9:45 p.m.

Friday, 7/5

"Breathless," 8 p.m.

"Total Recall," 10 p.m.

Saturday, 7/6

"A City of Sadness" (1989), directed by Hou Hsiao-hsien, with Tony Leung and Hsin Shu-fen, 7 p.m.

"Mr. Smith Goes to Washington" (1939), directed by Frank Capra, with James Stewart and Jean Arthur, 9:55 p.m.

Sunday, 7/7

"She's Gotta Have It," 8:50 p.m.

Monday, 7/8

"Mr. Smith Goes to Washington," 7:25 p.m.

"Dead Poets Society" (1989), directed by Peter Weir, with Robin Williams and Robert S. Leonard, 10 p.m.

Tuesday, 7/9

"This Bloody Blundering Business" and

"People Power," media classroom B, Uris Library, 1:30 to 2:45 p.m. and 3 to 4:15 p.m.

"The World Within/Remembering Jung" (1990), directed by Suzanne Wagner, with Carl Jung, 8 p.m.

"Total Recall," 9:45 p.m.

Wednesday, 7/10

"Stavisky" (1974), directed by Alain Resnais, with Jean-Paul Belmondo and Charles Boyer, 7:30 p.m.

"Dead Poets Society," 9:55 p.m.

Thursday, 7/11

"The Draughtsman's Contract" (1982), directed by Peter Greenaway, with Anthony Higgins, Janet Suzman and Anne L. Lambert, 7:15 p.m.

"Goodfellas" (1990), directed by Martin Scorsese, with Robert DeNiro, Ray Liotta and Joe Pesci, 9:40 p.m.

MUSIC

Bound for Glory

Paul Clements, English songwriter, will perform in three live sets June 23; Patti Meyer and Gary Lee from Buffalo, with traditional ballads to blues, country to contemporary, June 30; and, Side by Side, a duo from Washington, D.C., July 7. Performances will be at 8:30, 9:30 and 10:30 p.m. in the Commons Coffeehouse in Anabel Taylor Hall. Bound for Glory can be heard Sundays from 8 to 11 p.m. on WVBR-FM, 93.5.

Summer Harpsichord Recital

The Cornell Summer Harpsichord Workshop, directed by Joyce Lindorff, will perform June 21 at noon in H16 Lincoln Hall. Seven harpsichordists from the United States and Australia will perform music of Bach, Couperin and Scarlatti.

RELIGION

Baha'i

Weekly meetings on campus. Call 257-7971 for information.

Catholic

Masses: Saturdays, 5 p.m., Sundays, 10 a.m., Anabel Taylor Auditorium. Daily masses announced on a weekly basis.

Christian Science

Testimony meetings on Thursday, June 27, July 11 and July 25 at 8 p.m., Founders Room, Anabel Taylor Hall.

Episcopal (Anglican)

Sundays, worship and Eucharist, 9:30 a.m., Anabel Taylor Chapel.

Friends (Quakers)

Sundays, 10 a.m., adult discussion; 11 a.m. worship, Edwards Room, Anabel Taylor Hall.

Jewish

Morning Minyan at Young Israel, 106 West Ave. Call 272-5810.

Shabbat Services: Friday: Conservative/Egalitarian, 6 p.m., Founders Room, Anabel Taylor Hall; Orthodox, Young Israel (call 272-5810 for time). Saturday: Orthodox, 9:15 a.m., Edwards Room, Anabel Taylor Hall; Conservative/Egalitarian, 9:45 a.m., Founders Room.

Korean Church

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

Muslim

Friday prayers, 1 p.m., Edwards Room, Anabel Taylor Hall; Friday discussion dinner, 7:30 p.m., 218 Anabel Taylor Hall; Sunday Qur'an Study, 12:30 p.m., 218 Anabel Taylor Hall.

Protestant Cooperative Ministry

Sunday worship, 11 a.m., Anabel Taylor Chapel; Taize Prayer, Tuesdays, 5:30 p.m., Anabel Taylor Chapel; Bible study, Thursdays, noon, G-7 Anabel Taylor; Celebration, Fridays, 5 to 8 p.m., 401 Thurston Ave. Call the Rev. Barbara Heck, chaplain, 255-4224, for information.

Seventh-Day Adventist

Student association, Fridays, 7:15 p.m., 314 Anabel Taylor Hall.

Zen Buddhism

Zazen meditation every Tuesday at 7 p.m. and Thursday at 5:10 p.m. in Anabel Taylor Chapel. Beginner's instruction Thursdays at 4:30 p.m. in the chapel. For more information call Jon Warland at 272-0235.

SEMINARS

Boyce Thompson Institute

"A Family of C/EBP-Related bZIP Proteins with the Potential to Form Covalently Linked Leucine Zipper Dimers," Peter F. Johnson, Frederick Cancer Research Facility, National Cancer Institute, Maryland, July 1, 11 a.m., auditorium, Boyce Thompson Institute.

Institute for African Development

"State of the Struggle in South Africa," Michael O. Sutcliffe, University of Natal, Durban, June 10, noon, 211 West Sibley Hall.

International Studies

"Sojourn's End: Funerals and Other Rituals Among Chinese in Thailand," Ann Maxwell Hill, visiting Luce Fellow, Dickinson College, a slide presentation and lecture, June 20, 12:15 p.m., G08 Uris Hall.

"Writing the History of Sumatra: Problems and Prospects," Barbara Watson Andaya, visiting Luce Fellow, University of Auckland, June 27, 12:15 p.m., G08 Uris Hall.

"The Study of Maluku in Southeast Asia: History and Historiography," Leonard Andaya, visiting Luce Fellow, University of Auckland, July 11, 12:15 p.m., G08 Uris Hall.

Southeast Asian Studies Summer Institute

"Writing the History of Sumatra: Problems and Prospects," Barbara Watson Andaya, University of Auckland, June 27, 12:15 p.m., G08 Uris Hall.

MISC.

Architectural Tours

Walking tours of the architecture of Cornell, beginning at 6:30 p.m. at the statue of Ezra Cornell, near Morrill Hall on the Arts Quad, will be given on Mondays, June 24, July 1, July 8, July 15, July 22 and July 29.

Computer-Aided Design

Instructional Facility Tours

Tours of the Computer-Aided Design Instructional Facility (CADIF) will be given at 2 p.m. on Wednesdays, June 26, July 10 and July 24. Meet in 162 Hollister Hall.

Garden Tours

Tours of the L.H. Bailey Conservatory greenhouse, led by K.C. Bennett, conservatory manager, will be given on June 26 and July 8 at noon. Meet at Miss Minn's Garden.

A tour of the Robison York State Herb Gardens, Cornell Plantations, will be given on July 12 at noon.

Insect Collection Tours

Meet in the lobby of Comstock Hall at 2 p.m., Tuesdays, June 25, July 9 and July 23.

Johnson Museum Tours

"Reading Art, Speaking Art" tour will be given on Wednesdays, July 3, July 17 and July 31 at noon. Meet in the museum's lobby.

Southeast Asian Studies Summer Institute

As part of the Festival of Indonesia, the following events will be held. "Dance from Borneo," on June 23 at 8 p.m. in the Alumni Auditorium, Kennedy Hall. Admission is free, although contributions of \$2 for adults and \$1 for students are encouraged to support the Working Group on the Indonesian Environment, a Cornell environmental group.

"Gandrung Banyuwangi," the name given to a type of music and the ensembles who play it, July 10 at 8 p.m., Memorial Room, Willard Straight Hall. Admission is free.

The final event will feature a "wayang kulit" (shadow puppet) performance led by a visiting "dalang" or puppeteer from central Java, July 20 at 7:30 p.m. in Alumni Auditorium, Kennedy Hall. Admission is free.

Spacecraft Planetary Imaging Facility Tour

Wednesday, July 3, July 17 and July 31 at 2 p.m. Meet in 317 Space Sciences Building.

Supercomputer Tours

Tuesday, July 2, July 16 and July 30 at 2 p.m. Sign up with Donna Smith at 255-8614.

Summer Session

For a listing of Summer Session lectures, performances and other events, turn to Page 4 of today's Summer Session supplement to the Chronicle.

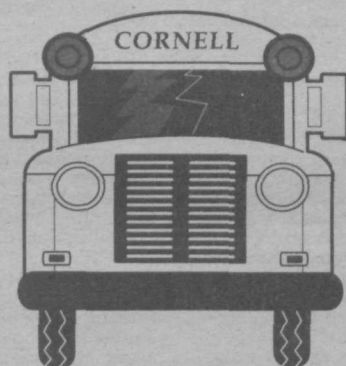
CORNELL EMPLOYMENT NEWS

Including Job Opportunities

Volume 3, Number 23

Transportation Plan Needs Support of All

During the last six months, you probably have heard a good deal about the new transportation plan. You should have received an information package explaining the details of implementation. If you have suggestions that would make the plan more workable for your particular situation, you may want to convey those to Bill Wendt, director of transportation services, or Paul Griffen, associate vice president for facilities planning and construction. The following letter was sent to deans, directors, department heads, and supervisors to encourage supervisors to be as flexible as possible so that employees can take advantage of public transportation or ride-sharing. Though most scheduling concerns will in all likelihood be handled within individual work units, Jay E. Morley, Jr., senior vice president, would encourage you to let him know if you encounter difficulties that are not resolved.



needs and normal workday, please be as flexible as possible in allowing people to adjust their starting and quitting times to accommodate their use of public or shared transportation. There may also be other commuting issues affecting individual employees, and your assistance in working with the Office of Transportation Services on particular problems can be of value.

The long-term goals of this plan—reducing the need for new parking facilities, preserving the environment and campus green space, and relieving central-campus congestion—clearly are worthy objectives. I urge you to support this plan by using public and shared transportation yourself and by being flexible in encouraging the other members of your units to do the same.

Thank you for your help.

June 17, 1991

TO: Deans, Directors, Department Heads, and Supervisors

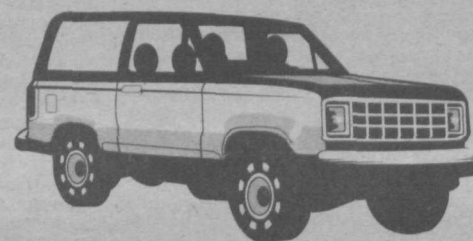
FROM: James E. Morley, Jr.
Senior Vice President

RE: New University Transportation Plan

A new university transportation plan will be implemented in July. The plan includes incentives to regu-

larly use an enhanced public transit system. It also includes incentives to join a ride-share group rather than bring a single-occupant vehicle to campus. Group members can obtain rebates or discounts on parking-permit fees, which are increasing as of July 1. A no-fee parking option will still be available. As you know, this transportation plan results from many months of on-campus discussions and compromises. During the next month every Cornell faculty and staff member and affiliate on the Ithaca campus will receive a packet from the Office of Transportation Services that explains the various programs and options.

It is clear that a key element in each Cornell community member's ability to take advantage of the public or shared transportation options will be your understanding and cooperation. Within the constraints of your individual units'



So What Does the Evaluation Committee Do?



Some of the members of the Evaluation Committee, discussing the nonexempt job questionnaires. Clockwise from the left: Brenda Peyser (Coopers & Lybrand); and Cornell employees Ken Hillary; Hank Roberts; Mary Beth Jordan; Allan Bishop III; Linda Budinger; Rebecca Coles; Rita Harris; Judi Baker; and Gil Ott.

The Evaluation Committee for the Classification Review Study represents a cross-section of the university's human resource/administrative functions and provides an informed understanding of and comprehensive perspective on university job positions. The Evaluation Committee:

- reviews and discusses the job hierarchies for exempt and nonexempt nonacademic positions once those have been developed by Coopers and Lybrand (the consultants working with the university on the study);
- evaluates jobs that appear to be somewhat unusual when compared to other positions in their groups. These evalua-

tions are made by using an objective evaluation plan that has already been developed by Coopers and Lybrand and approved by the Steering Committee. The Evaluation Committee refers to this plan and the job questionnaires, and calls in expert witnesses as the need arises to help shed light on these job duties and responsibilities (these "expert witnesses" may include the employees themselves and/or supervisors, who can help the committee better understand the nature of the work done in these jobs);

- prepares final job evaluation results for the Steering Committee's review and approval.

Classification Review Study Update:

At present, the Evaluation Committee is continuing to review nonexempt job questionnaires as part of the preliminary preparation of the nonexempt hierarchy. The hierarchy, once developed by the consultants, will be sent to the Steering Committee for approval.

Concurrently, the Steering Committee is now reviewing the exempt hierarchy for approval. Once the committee approves the hierarchy, individual job positions will be placed within that hierarchy.

Wellness Program Sponsors Physical Activity Classes for Summer 1991

Open to All Cornell Employees

• Early-Bird Aerobics

6:30-7:30 a.m., M-W-F, Helen Newman Hall Dance Studio

This is a medium intensity/low impact aerobics class. It is challenging for the beginner as well as the more advanced participant. Everything from big band swing music to today's popular hits is played! This class is for the early birders! Men are encouraged to try it out. Any level of skill will be accommodated. Start your morning out with a bang. Classes run from May 29-July 31 for the summer.

• Toner-cise

12:25-1:10 p.m., T-R, Helen Newman Hall Gymnasium

This class will emphasize the strengthening, toning and flexibility of the upper and lower body. This is a great complimentary class to your aerobic workout sessions. This class has been affectionately named, "the moan and groan class." Come see what it's all about.

• Evening Walkers' Club

5-6:00 p.m., W, Helen Newman Hall front steps

This class meets once a week to take brisk walks throughout the Cornell campus. Learn the many beautiful nature trails and gardens. End your workday with an exhilarating breath of fresh air, and get in touch with nature. Once again, men are welcomed! This class meets every Wednesday evening through July 17.

If you are interested in signing up for any of these classes, just come to the class and sign up with the instructor. All classes are \$2.00 per session. Fees are due when you begin the course and will be prorated based upon the number of classes remaining in the summer. For additional information, contact the Wellness Office at 255-3886.

Wellness Program Still Has Openings for Fall 1991



Myth: The Cornell University Wellness Program has an extensive wait list and I'll never get in.

Fact: The Cornell University Wellness Program did indeed have a large wait list in May 1989. Those employees on that wait list have been absorbed into the program. There currently are a few spots available for employees to enter into the 1991-92 Wellness Program and you are welcome to enroll.

If you are interested in becoming a member of the Cornell University Wellness Program, please call now! 255-5133

JOB OPPORTUNITIES

THE UNIVERSITY, IN RESPONSE TO THE NEW YORK STATE BUDGET REDUCTIONS, is recruiting only for those vacant positions considered to be essential to the operation of the university. We continue to encourage, accept, and refer applications from Cornell employees and from external applicants for these positions unless noted otherwise in the individual listing. When qualified laid off employees are available for a particular vacancy, they will be given first consideration for that position.

Staffing Services, 160 Day Hall, Cornell University, Ithaca NY 14853-2801
Day Hall: (607) 255-5226 East Hill Plaza: (607) 255-7422

- Employees may apply for any posted position with an Employee Transfer Application. A resume and cover letter, specifying the job title, department and job number, is recommended. Career counseling interviews are available by appointment.
- Requests for referral and/or cover letters are not accepted from external candidates unless specified in the ad. Candidates should submit a completed and signed employment application which will remain active 4 months. Interviews are conducted by appointment only.

- Staffing Services will acknowledge receipt of all material by mail. Hiring supervisors will contact those individuals selected for interview by phone; please include two or more numbers if possible. When the position is filled, candidates should receive notification from the hiring supervisor.
- Cornell University is an equal-opportunity, affirmative-action educator and employer.
- Job Opportunities can be found on CUINFO

Professional

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

All external candidates must have a completed signed employment application on file with Staffing before they can be interviewed for a position.

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

LAN Consultant/Advisor (PT7109) CIT/Network Resources-Endowed

Posting Date: 6/20/91

Analyze requirements for product development; perform tests and evaluations of network hardware and software; assist in defining service and technology products; advise clients as LAN (Local Area Network) implementation; and analyze and design standard and custom implementations. Coordinate interface to external vendors, obtaining test equipment, resolving problems, negotiating grants, etc. Assist staff with problems. Maintain in-depth LAN expertise.

Requirements: Bachelor's or equivalent with some computer science courses. 2-5 years experience in computing and computer networking, with some experience in LAN administration or design and implementation. Advanced communication skills with the ability to communicate ideas and plans effectively, verbally and in writing. Send cover letter and resume to Sam Weeks.

Applications Consultant/Advisor III (PT7006) Level 34

Cornell Information Technologies/WR-Endowed
Posting Date: 6/13/91

Provide expertise and leadership in evaluating and supporting personal productivity tools and their integration. Emphasis on spreadsheet, database, and word processing packages for varied workstations and networks, especially IBM and Macintosh microcomputers. Provide consulting, workshops, and documentation for colleagues and users.

Requirements: Bachelor's or equivalent experience. 2-5 years microcomputer experience: IBM and Macintosh productivity tools and their integration, especially spreadsheets and databases, preferably including networked versions. Computing services experience preferred. Need leadership, organizational, and communications skills (oral and written). Send cover letter and resume to Sam Weeks.

Systems Programmer/Analyst II (PT7105) Level 33

Materials Science Center-Endowed

Posting Date: 6/20/91

Develop and maintain the Material Science Center (MSC) computer systems and software in support of the research programs of MSC through a multi-user computing facility. Provide general administrative and technical support for student users. Provide major consulting assistance to a growing user community. Assess, develop, maintain and document software utilities and libraries. Maintain hardware and software. Perform disk backups.

Requirements: BS degree or equivalent in physical sciences, engineering or computer science. Ability to create and maintain complex software systems. Experience in FORTRAN, C, and UNIX. Send cover letter and resume to Sam Weeks.

Application Programmer/Analyst II (PT5502) Level 33

Financial Systems Development-Endowed

Posting Date: 2/28/91

Design, develop, modify and document straight forward applications systems software supporting a major administrative system. Analyze functional and performance requirements and develop software improvements in usability and efficiency. Diagnose problems in production system software and make emergency repairs. Write production procedure, JCL and user manuals. Provide users with conceptual and technical help. Maintain a working knowledge of two major commercial programming languages.

Requirements: Bachelor's or equivalent with computer courses. Knowledge of at least 2 languages: PL/1, NATURAL, COBOL. Knowledge of applications for interactive and batch administrative systems, database management systems, machine architecture, system utility programs, and VM/CMS. Send cover letter and resume to Sam Weeks.

Assistant Director, Capital Projects (PA7101) HRII

University Development-Endowed

Posting Date: 6/20/91

Responsible for providing complex logistical support for the management, coordination and execution of capital gift fund raising initiatives that are oriented toward individuals who have the capacity to give \$5 million or more.

Requirements: Bachelor's degree or equivalent. Three years progressively responsible professional experience in higher education fund raising or volunteer management. Keen sensitivity to human relations in working with staff and volunteers. Excellent communication and writing skills. Strong administrative, management and organizational skills. Send cover letter and resume to Cynthia Smithbower.

Director, Development Communications (PA7007) HRII

University Development-Endowed

Posting Date: 6/13/91

Responsible for the provision of overall communications expertise, perspective, and services to support all Development Programs and other Public Affairs offices. Also responsible for the design and management of an integrated Development message to maximize fundraising results for the university. Manages four professional writers, one production specialist, and one support staff position and works closely with several University and free lance publications, graphics, and production resources.

Requirements: Bachelor's or considerable experience and demonstrated expertise in the writing and editing of motivational materials and the development of marketing tools. Familiarity with graphics, typography, printing production and related computer technology. Proven management skills. Experience in cost estimating and budget planning. Send cover letter and resume to Cynthia Smithbower.

Copy Editor (PC7105) HRI

Publications Services/University Relations-Endowed

Posting Date: 6/20/91

The copy editor edits and proofs manuscripts, assists in producing subsequent production stages, and works with clients, designers, and support personnel during the entire process of producing printed publications.

Requirements: Bachelor's degree required. 2-3 years related working experience with computers and word processing programs (specific experience with Macintosh computers and Microsoft Word is desirable.) A sensitivity to language, nuance, and tone. A high regard for precision and accuracy. Attention to detail and fact. Ability to work both independently and closely with others. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Research Support Specialist I (PT7106) HRI

Agricultural Economics-Statutory

Posting Date: 6/20/91

Conduct research in the area of hedonic pricing. Assist Research Associate in the development of survey instruments and the conduct of mail and telephone surveys. Analyze survey results and write research reports. Make presentations of research results to industry leaders. Provide assistance on other economic research projects as required.

Requirements: Bachelor's in Agricultural Economics, Economics, Statistics or equivalent experience. MS desired. 2-3 years related experience in conducting economic analysis related to the dairy industry. Excellent written and oral communication skills; ability to work independently. Send cover letter and resume to Sam Weeks.

Teaching Support Specialist II (PT7107) HRI

Applied & Engineering Physics-Endowed

Posting Date: 6/20/91

Manage 4 teaching labs used by over 300 students. Maintain optics, laser and computer labs. Maintain Mac network. Set up lecture demonstrations and provide students with required equipment. Provide technical assistance and training in operation of lab equipment and experiments. Maintain files on all lab experiments including descriptions and operation guides. Design and fabricate new teaching demonstrations. Procure equipment and maintain supply inventory. Supervise student employees.

Requirements: BS or equivalent experience in relevant field of science or engineering. Working knowledge and experience with electronics, digital and analog circuitry, vacuum systems, mechanical fabrication and optics. Experience with Pascal and MS-DOS very desirable. Experience with high voltage desirable. Initiative, self motivation, organizational skills, strong service orientation and ability to work well with students are essential. Send cover letter and resume to Sam Weeks.

Development Reunion Assistant (PA7004) HRI

Alumni Affairs-Endowed

Posting Date: 6/13/91

Reports to the Associate Director and assists with all aspects of reunion planning and execution.

Requirements: Bachelor's degree preferred. 1 year related experience. Strong organizational skills, strong oral and written communication skills, knowledge of Apple Macintosh computer. Send cover letter and resume to Cynthia Smithbower.

Development Assistant, Capital Projects (PA7005) HRI

University Development-Endowed

Posting Date: 6/13/91

Assists the Director of Capital Projects providing administrative and project support in the Capital Projects Program. The program manages the cultivation and solicitation of alumni and friends of Cornell who have the potential to make gifts in excess of \$5,000,000.

Requirements: Bachelor's required or equivalent. 1-2 years experience in fundraising. Excellent communication and writing skills. Strong interpersonal skills. Some management and organizational skills. Send cover letter and resume to Cynthia Smithbower.

Prospect Tracking System Manager (PA7006) HRI

University Development-Endowed

Posting Date: 6/13/91

Manage the prospect tracking system for the Special Gifts program. Manages the cultivation and solicitation of alumni and friends of Cornell who have the potential to make gifts in the range of \$100,000 to \$1,000,000.

Also works closely with other University staff involved in Special Gift fundraising to coordinate the flow of information among central development, regional offices, and college and unit development offices.

Requirements: Bachelor's or equivalent experience. 1-2 years related experience. Excellent computer (micro and macro), supervisory and communication skills. Attention to detail. Send cover letter and resume to Cynthia Smithbower.

Shop Manager (PT7010) HRI

Civil and Environmental Engineering-Endowed

Posting Date: 6/13/91

Supervision of all activities in CEE machine shop for timely completion of construction, modification and repair of specialized equipment in instruction and research labs. Maintain all equipment. Supervise shop staff. Work with CEE administrative staff to assist in logistics of school functions and building coordination.

Requirements: Associate's or Bachelor's in engineering heavily desirable or must have completed a technical or trade school together with apprenticeship program a machinist. Must have demonstrated experience in design and planning of complex fabricated installations or equipment. Minimum 5 years experience in supervisory role in a machine shop or fabricating floor necessary. Some knowledge of electronics, instrumentation, computers required. Familiarity with plumbing and carpentry desirable. Send cover letter and resume to Sam Weeks.

Research Support Specialist (PT6607) HRI

Soil, Crop and Atmospheric Sciences-Statutory

Posting Date: 5/16/91

To provide technical support for the research program in low temperature biology, with primary responsibility for a) the isolation, purification and analysis of membrane lipids and b) studies related to the cryopreservation of both plant and insect germplasm. In addition, the individual will oversee and manage the day to day operations of the low temperature biology laboratories including the operation and maintenance of sophisticated analytical instruments and procurement of materials and supplies.

Requirements: Bachelor's or Master's in biochemistry or chemistry. Experience in the operation and maintenance of gas chromatograph/mass spectrometer, HPLC equipment and ultracentrifuges. A minimum of 5 years laboratory experience with a background in either plant or insect physiology/biochemistry. Send cover letter and resume to Sam Weeks.

Professional Part-Time

Executive Staff Assistant (PC6701) HRI

Vice President for Academic Programs and Campus Affairs-Endowed

Posting Date: 5/23/91

Responsible for implementing programs for the Access to College Consortium and the Cornell Committee on Education and the Community under the direction of Director of Public Service and Outreach Programs. 25 hours per week. Hours flexible. Monday-Friday, 8am-5pm. 10 month position, August-June.

Requirements: Bachelor's or equivalent experience. Excellent verbal, interpersonal and organizational skills. Ability to work independently, often under pressure and short deadlines. Computer skills, preferably Macintosh. Knowledge of CU and public schools helpful. Experience in program development. Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza. External applicants send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

BOYCE THOMPSON INSTITUTE

Molecular Biology

Research Assistant

Available September, 1991, flexible.

Minimum Salary: \$12,400

Participate in a project using in vitro transcription to study the regulation of maize mitochondrial promoters. Prepare transcriptionally active protein extracts from maize mitochondria, use recombinant DNA techniques to construct appropriate promoter test plasmids, conduct transcription assays, and analyze results using radioactive imaging and autoradiography. Experience with manipulations of DNA and/or protein is highly desirable. Applicable techniques include differential centrifugation, column chromatography, FPLC, restriction endonuclease digestions, gel electrophoresis, transformation of E coli and plasmid DNA purification. There will also be limited laboratory maintenance duties, including processing of purchase orders and supervision of laboratory.

Requirements: Bachelor's in Biology/Biochemistry or equivalent. Contact: Anne Zientek, 254-1239.

Post Doctoral

Available July 1

Entomology/Chemical Ecology; Research on chemical and sensory bases of host plant specificity. Candidates should be recent PhD's in entomology, with a background in plant-insect interactions. Experience in insect behavioral assays and some knowledge of plant chemistry is preferable. The appointment will be for 1 year, with possible renewal up to 3 years. Send resume and names of 3 references to Dr. Alan Renwick, Boyce Thompson Institute, Ithaca, NY 14853.

CORNELL ALUMNI NEWS

Circulation Assistant

Posting Date: 6/13/91

Assist with all aspects of circulation management for monthly magazine. Interact with Cornell Class Officers and Cornell Alumni Affairs staff. Continually update various circulation records. Data entry. Heavy clerical work. Answer phones as needed. Monday-Friday, 3 hours per day.

Requirements: High School diploma or equivalent. Light typing and 10-key ability, 1-2 years experience in office environment. Attention to detail critical. Familiarity with PC compatibles essential. Knowledge of Cornell Public Affairs Records Computer system helpful. Ability to interact well with various types of people. Send cover letter and resume to Andy Wallenstein, Cornell Alumni News, 55 Brown Road, Ithaca, NY 14850. This is not a Cornell University position.

Technical

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

All external candidates must have a completed signed employment application on file with Staffing before they can be interviewed for a position.

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

Technician, GR18 (T6709)

Plant Pathology-Statutory

Minimum Biweekly Salary: \$542.89

Posting Date: 5/23/91

Assist in laboratory, greenhouse, and field experimentation leading to the development of improved control methods for the golden nematode of potatoes. Plant and harvest potatoes. Prepare nematode inoculum and inoculate plants. Lay out, plant, and care for experimental plots. Collect and analyze data. **Requirements:** Associate's in Agriculture with 2 years experience in plant propagation. Minimum 1 year related experience. Knowledge of and experience with plant propagation in greenhouse and field. Familiarity with basic laboratory equipment. Send cover letter and resume to Sam Weeks.

Technician, GR19 (T7009)

Food Science-Statutory

Minimum Biweekly Salary: \$566.28

Posting Date: 6/6/91

Perform a variety of sensory tests on foods and model systems using available panelists, including sample preparation and presentation. Analyze data using a statistical computer package and tabulate and graph results.

Requirements: Associate's (or equivalent) in food science, chemistry, or related field. Minimum 1 year related chemistry lab experience with lab courses in chemistry including organic. Excellent interpersonal skills required. Experience working with human experimental subjects is helpful. Send cover letter and resume to Sam Weeks.

Technician, GR20 (T6904)

Biochemistry, Molecular and Cell Biology-Statutory

Minimum Biweekly Salary: \$590.45

Posting Date: 6/6/91

Provide technical assistance in rice cell culture work. Prepare growth media, grow rice calli, prepare suspension cultures and prepare protoplasts. Assist in research on transformation of protoplasts; taking care of calli and plants; and performing biochemical analysis of plant tissues. Order supplies and chemicals; and supervise several undergrad students.

Requirements: Bachelor's in biology, a related field, or equivalent. 1-2 years related experience. Familiar with general methods in biochemistry and microbiology. Extensive lab experience in animal or plant cell culture. Send cover letter and resume to Sam Weeks.

Animal Health Technician, GR20 (T6801)

Veterinary Medical Teaching Hospital-Statutory

Minimum Biweekly Salary: \$590.45

Posting Date: 5/30/91

Provide support therapy for Intensive Care Unit patients and assist with emergency procedures. Teach intensive care and emergency protocol to students assigned to ICU duty. Operate and maintain life support systems including oxygen therapy, IV and subcutaneous fluid therapy, central venous pressure, electrocardiograms, etc. Observe and treat patients following clinicians' orders. Clean rooms and cages. Keep records. Maintain supplies. Some weekend and holidays required. Rotating shift 11 pm to 7 am, 3 pm to 11 pm.

Requirements: AAS in animal health technology. NYS licensure or eligible. Experience working with small animals preferred and an interest in teaching critical care techniques. Send cover letter and resume to Sam Weeks.

Technician, GR20 (T6608)
Soil, Crop and Atmospheric Sciences-Statutory
Minimum Biweekly Salary: \$590.45
Posting Date: 5/16/91
Assist in research on cryopreservation/vitrification of Drosophila embryos. Conduct studies and experiments on the procedures and assessment of post-thaw egg viability; conditions required for larvae development; identification of abnormal morphology; and genetic stability. Maintain colonies and population cages, collect eggs, and prepare media. Prepare eggs for cryopreservation including dechoriation and permeabilization.
Requirements: Bachelor's or equivalent in entomology. 2 years related experience including vitro culture of insects. Demonstrated initiative and decision making abilities. Send cover letter and resume to Sam Weeks.

Technician, GR21 (T7103)
Veterinary Pathology-Statutory
Minimum Biweekly Salary: \$615.42
Posting Date: 6/20/91
Prepare high quality microscope slides for both diagnostic and research purposes. Perform routine embedding, sectioning and staining of animal tissue. Perform large volume of special staining procedures on rotating basis. Assist in development of contemporary histopathology procedures within the laboratory.
Requirements: BS or equivalent with experience and coursework in histopathological techniques. HT (ASCP) certification or eligibility desired. 2-3 years experience as histology technician in a hospital or research laboratory desired. Experience in variety of special staining techniques and immunoperoxidase technique desired. Send cover letter and resume to Sam Weeks.

Technician, GR21 (T7104)
Division of Nutritional Sciences-Statutory
Minimum Biweekly Salary: \$615.42
Posting Date: 6/20/91
Assume complete and independent responsibility for the following: 1) Anesthetization and surgery, precise surgical implant manipulations, excision and postoperative care of rats. 2) Perform experiments with rats including behavioral observations and data collection. Maintain a breeding colony. 4) Supervise and train undergrads conducting research. 5) Perform statistical analysis and maintain computerized databases. 6) Perform library research.
Requirements: BS or equivalent with background in biology or chemistry. Minimum of 2-3 years related experience. Computer experience required. Work in animal lab with supervisory experience highly desirable. Send cover letter and resume to Sam Weeks.

Technician, GR21 (T6804)
Animal Science-Statutory
Minimum Biweekly Salary: \$615.42
Posting Date: 5/30/91
Perform lab and animal experiments for an in vitro fertilization and cryobiology research program involving large and lab animals. Prepare various reagents, collect blood samples, operate sophisticated lab equipment and maintain lab supplies. Collect and analyze data, and prepare reports for publication.
Requirements: B.S. in Animal Science with advanced coursework in reproductive physiology and microbiology. 2-3 years lab experience in reproductive physiology. Ability to work with large and small animals. Send cover letter and resume to Sam Weeks.

Network Technician, GR22 (T6705)
IT Network Resources-Endowed
Minimum Biweekly Salary: \$641.92
Posting Date: 5/23/91
Provide the technical expertise necessary to diagnose communications problems and to support other technical and operational needs of the Network Management Center, its campus clients and Cornell's connections to external networks. Monitor the campus backbone network, associated LAN's and external regional and national connections. Diagnose network problems and repair them. Provide network technical assistance.
Requirements: Associate's or equivalent with 1-3 years related experience. An understanding of data communications networks and hardware highly desirable. Experience diagnosing problems in networking environment (especially TCP/IP) helpful. Strong interpersonal skills desirable. Send cover letter and resume to Sam Weeks.

Technician, GR22 (T6203)
Neurobiology and Behavior-Endowed
Minimum Biweekly Salary: \$641.92
Posting Date: 4/18/91
Participate in research using transmission and scanning electron microscopes for fine structure and autoradiography. Prepare cultures: tissue, cell and organ. Section tissue using ultramicrotomes. Prepare emulsions for coating sections.
Requirements: Bachelor's or equivalent experience in biological science (neurobiology or biochemistry). 2 years related experience using electron microscopes (TEM and SEM), microtomes, and sterile techniques for cell culture. Send cover letter and resume to Sam Weeks.

Accelerator Technician, GR24 (T6110)
Lab of Nuclear Studies-Endowed
Minimum Biweekly Salary: \$701.22
Posting Date: 4/11/91
Perform highly skilled work to maintain and improve the various components of accelerator ultra high vacuum systems consisting of a linear accelerator, an electron accelerator, and storage ring. Use techniques appropriate to various vacuum systems, particularly those for ultra high vacuum systems. Work with physicists to design, construct, and install new devices. Provide maintenance, handle malfunctions, and take corrections. Provide detailed documentation for the accelerator's master drawings and operating manuals.
Requirements: High School diploma or equivalent with at least 2 years formal training in ultra high vacuum technology. Work experience on such equipment with demonstrated ability to assume responsibility for its maintenance. Ability to supervise other technicians. Send cover letter and resume to Sam Weeks.

Technical Part-Time

Technician, GR21 (T7108)
Plant Culture and Ornamental Horticulture-Statutory
Minimum full-time equivalent: \$615.42
Posting Date: 6/20/91
Serve as assistant in the Turfgrass Water Quality Program doing basic and applied research on the fate of fertilizers and pesticides applied to golf turf. Assist in the design, organize and carry out experiments. Collect and statistically analyze data. Establish, maintain and treat test plots. Analyze plant, soil and seachate samples. Maintain supply inventory.
Requirements: Bachelors in turfgrass science, dendro, agricultural science acceptable. At least 1-3 years experience in turfgrass management and the associated specialized equipment. Computer and

statistical analysis competency. Familiarity with isotopic nitrogen analysis by mass spectrometry. Ability to operate basic lab and field equipment. NYS driver's license and pesticide application certificate required. Send cover letter and resume to Sam Weeks.

Computer Programmer, GR21 (T7007)
Neurobiology and Behavior-Endowed
Minimum full-time equivalent: \$615.42
Posting Date: 6/13/91
Provide computer and data entry support in a scientific lab for the duration of NIH supported research project. Write routine computer programs in BASIC. Perform data entry input and update of research information. Run programs and assist in routing data analysis.
Requirements: Bachelor's with coursework in computer science or equivalent experience. 1 year experience in programming in BASIC. Ability to communicate technical information orally and in writing. Familiarity with IBM computers. Advanced analytical and math skills helpful. Send cover letter and resume to Sam Weeks.

Technical Temporary

Technician (T7110)
Entomology/Schwardt Lab-Statutory
Hiring Rate: \$6.25
Posting Date: 6/20/91
Assist in the study of Lime disease. Collect ticks, work with colonies of ticks and rodents. Perform lab studies.
Requirements: Some lab work, data collection, record keeping and experience with research animals. Must be able to work independently, keep good records. Must have own car and valid NYS driver's license. Send cover letter and resume to Sam Weeks.

Technician (T7111)
Entomology/Schwardt Lab-Statutory
Hiring Rate: \$5.95
Posting Date: 6/20/91
Assist in the study of Lime disease. Feed and care for animals, mice, gerbils and rabbits. Maintain animal colonies including ticks. Good record keeping. Position through summer, perhaps longer. 10 hours per week. Schedule flexible.
Requirements: Some entomological coursework, training and experience very helpful. Some lab work, record keeping and experience with research animals. Must have own car and valid NYS driver's license. Send cover letter and resume to Sam Weeks.

Office Professionals

Approximately half of all University openings are for Office Professionals. Individuals with secretarial, word processing (IBM PC, MacIntosh, Wang, Micom), data entry, technical typing, or medium to heavy typing (45-60+ wpm) are encouraged to apply.
All external candidates must have a completed signed employment application on file with Staffing before they can be interviewed for a position. Employee candidates should submit an employee transfer application and cover letter, if requested, for each position in which they are interested.
Submit a signed employment application and resume which will remain active for a period of four months. During this time, you will be considered for any appropriate openings for which you are competitively qualified. Requests for referral and/or cover letters are not accepted from external candidates unless specified in the ad. Qualified applicants will be invited for a preliminary interview at our East Hill Plaza office. If you are currently available for employment, you may want to consider temporary opportunities at the University. Please contact Karen Raponi at 255-2192 for details.

Cashier, GR15 (C6705)
Unions and Activities/RPU-Endowed
Minimum Biweekly Salary: \$499.20
Posting Date: 5/23/91
Operation of cash register; product inventory and ordering; customer service; prepare day-end deposits; assist with setting up and cleaning service area. Wed.-Sun.; 3pm-11pm (Academic). Mon.-Fri.; 4pm-10pm (Summer). 10 month position.
Requirements: High School diploma or equivalent. Experience with cash handling in a fast paced, high pressure environment. Possess a genuine enthusiasm and positive attitude towards the job and maintain a "customer first" attitude at all times. **Regular Cornell employees send employee transfer application to Esther Smith, Staffing Services, East Hill Plaza.** External applicants send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Secretary, GR18 (C5005)
Human Service Studies-Statutory
Minimum Biweekly Salary: \$542.89
Posting Date: 6/13/91
Provide secretarial support for 4-6 faculty in a large department, type classwork, reports, manuscripts, correspondence and vouchers; answer telephone; distribute mail; arrange travel, library reserve lists; conferences and meetings; order text books; make copies; run campus errands; keep faculty files and calendars and other duties as assigned.
Requirements: High School diploma or equivalent education/experience. Business or secretarial school highly desirable. 1-2 years previous secretarial experience; experience on IBM PC or MacIntosh computers; knowledge of word perfect or Micro Soft Work highly desirable. Ability to work under pressure. Interpersonal and organizational skills. Machine/manual transcription skills. **Regular employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.**

Job Opportunities Coordinator/Personnel Assistant, GR18 (C7015)
OHR/Staffing Services-Endowed
Minimum Biweekly Salary: \$542.89
Posting Date: 6/13/91
Provide clerical support in the areas of recruitment, referral of applicant materials and data entry for the Assistant Manager, Administrative/Professional positions. Input and edit information for Job Opportunities, a weekly listing recent position vacancies. Perform as backup receptionist.
Requirements: High School diploma or equivalent. Some college coursework preferred. 1-2 years related work experience. Experience as a receptionist desirable. Excellent data entry, organizational and interpersonal skills. Meticulous attention to detail essential. Must be able to work within tight deadlines. Medium typing. **Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.**

Office Assistant, GR18 (C7007)
Controller's/Accounting-Endowed
Minimum Biweekly Salary: \$542.89

Posting Date: 6/13/91
Responsible involve the coordination and control of the processing of journal vouchers; distribution and retention of microfich, and accounting reports; part time data entry of journals, deposits, and other documents; facilitate the mailing of accounting statements and reports to Endowed Colleges and departments.
Requirements: High School diploma or equivalent. Some college coursework preferred. 1-2 years related experience. Familiarity with computers and data entry. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.** External applicants send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza. Minorities are particularly encouraged to apply.

Editorial Assistant, GR18 (C7013)
C.U. Press-Endowed
Minimum Biweekly Salary: \$542.89
Posting Date: 6/13/91
Work closely with the editor responsible for acquiring scholarly and trade books in the life sciences. General secretarial support; extensive liaison with authors, reviewers, and other departments of the Press.
Requirements: Associate's or equivalent. Self-motivated with an eye for detail, and a good command of the English language. Excellent communication and organization skills. 1-2 years prior experience in publishing helpful. Familiarity with PCs, and in particular a working knowledge of Microsoft Word, and Lotus is desirable. Medium typing. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.** External applicants send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Secretary, GR18 (C7103)
University Development-Endowed
Minimum Biweekly Salary: \$542.89
Posting Date: 6/20/91
Provide a range of secretarial and office support to the Assistant Director of Student Aid Development & Stewardship. Type, proofread, file, organize, mail and receptionist duties. Special emphasis is placed on preparing, processing, and proofreading annual scholarship reports. Research, collect, and record data to maintain Macintosh database. Arrange donor/recipient and staff/student meetings and appointments.
Requirements: High school diploma or equivalent. 1-2 years related experience. Excellent organizational and interpersonal skills; service orientation; excellent proofreading abilities; experience with IBM or Macintosh word processing systems preferable. Medium typing. **Cornell employees send employee transfer application to Esther Smith, Staffing Services, East Hill Plaza.**

Administrative Aide, GR19 (C7006)
Alumni Affairs-Endowed
Minimum Biweekly Salary: \$566.28
Posting Date: 6/13/91
Provide administrative support to the Director of Class Programs. Support director with mailings and minutes for the Cornell Association of Class Officers; maintain database of class officers; process registrations for the annual class officers meeting; coordinate the hotel room reservations for reunion weekend; extensive contact with alumni and university public affairs.
Requirements: High School diploma or equivalent. Some college coursework preferred. 1-2 years related experience. Excellent organizational, communication, and interpersonal skills. Knowledge of Macintosh computer and software, including Microsoft Word, Filemaker, and Page maker. Ability to work in a fast-paced environment with continual deadlines. Medium typing. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, East Hill Plaza.**

Administrative Aide, GR19 (C6411)
Center for Environmental Research-Statutory
Minimum Biweekly Salary: \$566.28
Posting Date: 5/2/91
Provide general office support to 8 staff in the CLEARS program unit of CER. Do word processing and editing correspondence, reports and instructional materials; telephone and receptional duties including map sales; liaison with CER for accounting; A/R, and payroll; coordinate assignments for student assistants.
Requirements: High School diploma or equivalent. Some college coursework preferred. 1-2 years related office experience. Knowledge of Cornell accounting systems. Good communication skills. Word processing skills for both IBM and Macintosh preferred. Medium typing. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.**

Secretary, GR19 (C5110)
JGSM-Endowed
Minimum Biweekly Salary: \$566.28
Posting Date: 1/31/91
Provide secretarial and administrative support to the Director of Business Operations and the School's Business Manager.
Requirements: High School diploma or equivalent. Some college coursework preferred. 1-2 years related office experience. Working knowledge of Macintosh computer. Excellent organizational, interpersonal and communication (written and oral) skills. Heavy typing. **Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.**

Accounts Assistant, GR20 (C7101)
Administrative Services/F&BO-Endowed
Minimum Biweekly Salary: \$590.45
Posting Date: 6/20/91
Provide administrative and accounting support for Facilities and Business Operations Departments. (Directors, Business Managers, Superintendents, Plant/Account/Section Managers, and support staff.)
Requirements: High school diploma or equivalent. Associate's degree in Accounting preferred. Experience using calculator, typewriter, and Personal Macintosh computers necessary. Accurate typing and excellent interpersonal, oral, and written communications skills. Cornell University accounting experience desirable. Light typing. **Cornell employees send transfer application to Esther Smith, Staffing Services, East Hill Plaza.**

Accounts Assistant, GR20 (C7102)
Graduate School-Fellowships & Financial Aid-Endowed
Minimum Biweekly Salary: \$590.45
Posting Date: 6/20/91
Performs majority of recordkeeping functions for a busy office. Research & resolve student account problems. Liaison for Graduate Student Conference & Research Travel requests. Process award recommendation forms. Assist Director with accounts on Excel. Act as back-up receptionist, handle routine questions, correspondence and telephone inquiries.
Requirements: High school diploma or equivalent. Some college coursework preferred. 2-3 years related

experience. Proficiency on the Mac using Excel and Microsoft Word required. Strong interpersonal and communication skills required. Understanding of student finance system and Cornell accounting helpful, ability to work under pressure and attention to detail expected. Excellent organization skills required. **Cornell employees send employee transfer application to Esther Smith, Staffing Services, East Hill Plaza.**

Copy Cataloger, GR20 (C7104)
Catalog Department-Endowed
Minimum Biweekly Salary: \$590.45
Posting Date: 6/20/91
Catalog monographs with Library of Congress or other acceptable copy, including authority work. Other duties include shelf listings, added volumes, data base management activities and other cataloging tasks as assigned.
Requirements: Associates degree or equivalent experience preferred. At least one year of previous work experience in libraries, prefer technical services experience. Must be dependable and have the aptitude for detailed work. Strong interpersonal skills. At least one foreign language, Hebrew strongly preferred. Light typing. **Cornell employees send employee transfer application to Esther Smith, Staffing Services, East Hill Plaza.**

Administrative Aide, GR20 (C7008)
Associate Vice President for Human Relations-Endowed
Minimum Biweekly Salary: \$590.45
Posting Date: 6/13/91
Provide administrative support for the Associate Vice President and her assistant. Word process reports and correspondence; answer telephone; coordinate meetings; keep calendar; arrange travel; do bookkeeping; file. Other duties as assigned.
Requirements: Associate's or equivalent. IBM PC WordPerfect 5.1. Endowed bookkeeping. Travel procedures a plus. 2-3 years related experience. Familiarity with Cornell. Good communication, organization and interpersonal skills. Able to maintain confidentiality. Good attention to detail and ability to work independently. Medium typing. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.** External applicants send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Administrative Aide, GR20 (C7012)
Computer Science-Endowed
Minimum Biweekly Salary: \$590.45
Posting Date: 6/13/91
Provide administrative and clerical support to the Office of Undergraduate Programs. Manage the production and coordination of course materials, student publications and event planning. Primary supervision provided by Assistant Director of Undergraduate Programs.
Requirements: Associate's or equivalent combination of education and experience. Minimum of 2 years related experience in university environment. Excellent organization and human relations skills. Demonstrated ability to work with diverse groups; attention to detail as well as ability to prioritize. Excellent typing and word processing skills a must. Medium typing. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.** External applicants send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Administrative Aide, GR20 (C7014)
Human Ecology Administration-Statutory
Minimum Biweekly Salary: \$590.45
Posting Date: 6/13/91
Provide administrative support to the Public Affairs office of the College of Human Ecology, including word processing, copying, filing, and production for numerous mass mailings. This position also interacts with college alumni and various publics.
Requirements: Associate's or equivalent combination of education and experience. 2 years related experience. Strong writing, wordprocessing and organizational skills essential. Diplomacy and confidentiality essential. Must be sensitive to the special nuances that are inherent to a Public Affairs office (i.e. relations with Alumni, VIP's, and donors). Experience with microcomputers and wordprocessing required (WordPerfect 5.1). Experience in working with volunteers and public necessary. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.**

Personnel Assistant, GR20 (C6909)
Office of Human Resources-Endowed
Minimum Biweekly Salary: \$590.45
Posting Date: 6/6/91
Review and approve academic and non-academic appointment forms. Interpret academic personnel policies and procedures and advise deans, directors, department chairs, and other administrative staff on related matters; involved in all phases of personnel action form processing; advise department payroll reps and OHR staff on non-academic appointment procedures and policies; input and retrieve employee demographic and appointment data using the university personnel payroll and academic personnel databases.
Requirements: Associate's in business or related field. Coursework in human resources helpful. 2 years related experience. Computer input experience required. Ability to organize, set priorities and work under pressure essential. Attention to detail, self-initiative and ability to think independently required. Strong oral and written skills. Knowledge of academic and/or non-academic appointment procedures preferred. A familiarity with university hiring procedures. Medium typing. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services.**

Accounts Coordinator, GR20 (C6623)
Center for Environmental Research-Endowed
Minimum Biweekly Salary: \$590.45
Posting Date: 5/16/91
Conduct all financial transactions for multidisciplinary research center. Maintain records on all levels of account activity, reconcile department records with University records; generate monthly reports an special reports; assist with development of computerized accounting, equipment, and personnel databases.
Requirements: Associate's or equivalent experience in field of accounting. 2-3 years related experience. Knowledge of Cornell accounting procedures or general knowledge of fund accounting necessary. Experience with MacIntosh database and spreadsheet software preferred. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.** External applicants send cover letter, resume to Esther Smith, Staffing Services, East Hill Plaza.

Reference Assistant, GR20 (C6210)
Mann Library-Statutory
Minimum Biweekly Salary: \$575.30

Posting Date: 4/18/91

Provide information service in Mann Library and coordinate the maintenance of the collection of reference materials. Responsible, in the Entomology Library, for student hiring and supervision, and user assistance. Provide circulation assistance and assist with collection.

Requirements: Associate's or equivalent. Additional college coursework in agriculture or life sciences preferred. Strong interpersonal and communication skills. Supervisory and effective public service experience required. Experience working in an academic library and with use of microcomputers preferred. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Administrative Aide, GR21 (C7106)

International Agriculture & CIIFAD-Statutory

Minimum Biweekly Salary: \$615.42

Posting Date: 6/20/91

Serve as Executive Secretary to Associate Director of International Agriculture and CIIFAD. Manage various databases.

Requirements: 2-3 years related experience. Minimum of 3 years working overseas- foreign language capability highly desired, must have working knowledge of wordperfect, foxpro and Harvard graphics. **Cornell employees send employee transfer application to Esther Smith, Staffing Services, East Hill Plaza.**

Administrative Aide, GR21 (C6803)

Human Ecology/Field & International Study Program-Statutory

Minimum Biweekly Salary: \$615.42

Posting Date: 5/30/91

Under the supervision of the Director, responsible for business operations of the Field and International Study Program. Assists in the development, preparation and monitoring of the program and grant/contract budgets. Manages information/data system.

Requirements: Associate's degree or equivalent experience. 2-3 years of office management/accounting experience desired. Strong interpersonal, communication and organizational skills. Previous experience with IBM computers. Familiarity with WordPerfect and dBase preferred. Knowledge of policy and procedures for statutory accounting as well as grant and contract administration. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza. Minorities are particularly encouraged to apply.** External applicants send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Administrative Aide, GR21 (C6805)

Vice President for Research-Endowed

Minimum Biweekly Salary: \$615.42

Posting Date: 5/5/91

Provide administrative support to the Vice President for Research and Advanced Studies. Handle a large volume of correspondence, setup meetings, coordinate appointments and travel, maintain office filing system, handle office accounts, process payroll vouchers, and assist Executive Staff Assistant.

Requirements: A.A.S. Degree in Business and at least three years related experience. Familiarity with University resources (payroll, accounting, student employment, etc.). Experience with Macintosh. Strong interpersonal organizational, and communication skills. Ability to work independently and maintain confidentiality. **Regular Cornell Employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.**

Research Aide, GR21 (C6614)

Neurobiology and Behavior-Statutory

Minimum Biweekly Salary: \$615.42

Posting Date: 5/16/91

Provide administrative support to professional research group. Assist in preparation of research grants; prepare reports; type and proofread scientific papers; serve as liaison with on and off campus contacts in setting up meetings, workshops, lectures; coordinate travel; handle daily correspondence; maintain files; order supplies; assume to other responsibilities; as needs arise.

Requirements: Bachelor's or equivalent in some biology helpful. 1-2 years related experience. Computer/wordprocessing a must. Excellent organizational and communication (written and oral) skills. Heavy typing. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.** External applicants send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Administrative Aide, GR21 (C6618)

Astronomy-Endowed

Minimum Biweekly Salary: \$615.42

Posting Date: 5/16/91

Act as assistant to the Chairman in his capacity as director of a special educational program sponsored by the Pew foundation. Prepare and process confidential materials. Maintain schedules of due dated, prepare and oversee reports due. Oversee accounts duties. Make travel arrangements. Some travel involved.

Requirements: Associate's or equivalent required. 2-3 years administrative secretarial experience beyond formal training. Word processing and writing skills very important. Excellent organizational and interpersonal skills. Ability to work under pressure. Prior experience at Cornell preferable but not required. Medium typing. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.**

Administrative Aide, GR21 (C5704)

CRSR-Endowed

Minimum Biweekly Salary: \$615.42

Posting Date: 3/14/91

This position is for an experienced secretary who is able to give administrative support to a sizeable research group consisting of several professors, research associates and graduate students. Duties include scientific typing, correspondence, E-mail, travel arrangements, travel reimbursement, general office duties.

Requirements: Associate's or equivalent required. 2-3 years of secretarial experience, preferable Cornell background. Solid word processing skills (IBM preferred, if possible, knowledge of Sun Microsystem word processing program). Scientific typing. Medium typing. **Regular Cornell employees only. Send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.**

Administrative Aide, GR22 (C3501)

Human Service Studies-Statutory

Minimum Biweekly Salary: \$625.24

Posting Date: 6/13/91

Provide administrative staff assistance to the overall management of the department; including coordination of appointments, supervision of clerical staff (6); fiscal management; office management; and coordination of department information, space and special programs.

Requirements: Associate's or equivalent. 3-4 years related experience. Prior experience required in personnel, supervision, fiscal management and office management. Knowledge of IBM computers and systems management desirable (wordperfect, Lotus 123, Dbase). Knowledge of budgeting and Cornell accounting system a plus. Strong interpersonal skills. Medium typing. **Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.**

Accounts Coordinator, GR22 (C6703)

Section of Physiology-Statutory

Minimum Biweekly Salary: \$641.92

Posting Date: 5/23/91

Assume responsibility for management and reconciliation of over 100 accounts (state, endowed, college, and grants). Supervision/training of one Accounts Assistant; establish and maintain working relationship with 3 colleges (one Endowed) and the Division of Biological Sciences; advise on university, state and college financial policies and procedures; assist with annual budgets.

Requirements: Associate's or equivalent. Associate's in bookkeeping/accounting desirable. 5 years experience in Statutory accounting, 2 years experience in grant management/accounting, IBM PC experience (Wordperfect, Lotus 1-2-3). **Regular Cornell employees. Send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.**

Office Professional Part-time**Accounts Assistant, GR18 (C7004)**

University Health Services-Endowed

Minimum full-time equivalent: \$542.89

Posting Date: 6/13/91

Provide billing services for UHS. Receive payments from patients for services rendered, daily deposits and balancing; complete insurance forms and compensation reports, Bursar charges and communication; prepare patient and insurance correspondence relating to specific accounts and billing procedures. Monday-Friday, 24 hours per week.

Requirements: High School diploma or equivalent. Some medical experience, accounting and computer preferred. 1-2 years related experience. Ability to work independently, be self directed and have strong interpersonal skills. Must be able to work flexible hours. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.** External applicants send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Administrative Aide, GR19 (C7012)

SRC Microscience and Technology Program-Endowed

Minimum full-time equivalent: \$566.28

Posting Date: 6/13/91

Handle daily operations of the SRC Microscience and Technology Program. Prepare quarterly and annual reports; draft correspondence; prepare payments and purchase orders, maintain accounting files; handle daily activities of the Director. Flexible hours: Monday-Friday, 7:30-5; 4 hours/day.

Requirements: High School diploma or equivalent; some college coursework preferred. 1-2 years related experience. Computer experience necessary, knowledge of Excel, Wordperfect and Database software helpful. Familiar with C.U. accounting system also helpful. Medium typing. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.**

Senior Information Assistant, GR20 (C7009)

Reference Department/Olin Library-Endowed

Minimum full-time equivalent: \$590.45

Posting Date: 6/13/91

Staff a busy information desk in Cornell's central research library. Provide information and reference services; assist library patrons by providing information the libraries organization and services; perform complex bibliographic searches, answer government document questions, and locate factual information; refer users to appropriate resources or other staff for answers to subject queries. 20 hours per week, including evenings and weekends.

Requirements: Associate's in social sciences or humanities or equivalent. 2 years related experience. Excellent interpersonal and communication skills and

the ability to work calmly under pressure required. Experience in a research library, knowledge of bibliographic resources and teaching skills desirable. Knowledge of at least one foreign language. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Office Professionals Temporary

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

Secretary (S7002)

Soviet and East European Studies Program

Posting Date: 6/20/91

Set up program meetings and notify members. Attend Program and Steering Committee meetings and prepare minutes. Prepare seminar notices and mailings. Collect data, edit, organize & mail SEESP newsletter. Collect and organize data, type and edit annual proposal for Title VI Fellowships. Organize conference arrangements; travel, accommodations, meeting rooms, and meals. Make arrangements for Program visitors such as lecture room reservations, travel reimbursements, honoraria checks, and receptions. Serve as primary contact person for information and referral for department.

Requirements: High school diploma or equivalent. Previous office experience is a must. Experience with WordPerfect and Q&A. September 1 - May 31, 20 hours per week. Send cover letter and resume to Karen Raponi, Staffing Services, East Hill Plaza.

Office Assistant (S7005)

Lab of Ornithology-Endowed

Hiring Rate: \$6.50

Posting Date: 6/13/91

Under the supervision of the Extension Associate III operate the lab home study course in bird biology, (a college level correspondence course in Ornithology). Duties include: responding to inquiries; enrolling students; grading questions; supervising each students progression thru the course.

Requirements: High School diploma or equivalent, coursework in biology is helpful. Experience with Macintosh computers required. Beginning immediately for 6 months. Send cover letter and resume to Karen Raponi, Staffing Services, East Hill Plaza.

Distribution Assistant (S6601)

Agricultural and Biological Engineering-Statutory

Hiring Rate: \$7.00

Posting Date: 5/16/91

Assist in distribution of publications. Enter orders in computer, print invoices, pack boxes and prepare for mailing. Assist in marketing and other office duties. Answer phone. Monday-Friday, 8a.m-12 noon. This is a 6 month appointment.

Requirements: Familiarity with Macintosh computer. Able to lift 40 pound boxes. Send application materials to Karen Raponi, Staffing Services, 160 Day Hall.

Service Clerk (S6503)

Lab of Ornithology-Endowed

Posting Date: 5/9/91

Assist with sales at the Crow's Nest Birding Shop on weekends, Monday nights for seminars, and possible hours during the week to cover for vacations. Cashiering, answer phones, data entry, and able to lift 50 pounds. Work with customers service skills and flexibility. Must be dependable.

Requirements: High School diploma or equivalent. Cash register and data experience helpful. Please send cover letter and completed application to Karen Raponi, Staffing Services, 160 Day Hall.

General Service

Submit a signed employment application which will remain active for a period of four months. during this time, you will be considered for any appropriate openings for which you are competitively qualified. Requests for referral and/or cover letters are not accepted from external candidates unless specified in the ad. Qualified applicants will be invited for a preliminary interview at our East Hill Plaza office. If you are currently available for employment, you may want to consider temporary opportunities at the University. Please contact Karen Raponi at 255-2192 for details.

Custodian, S002 (G5002)

Unions and Activities/Noyes Center-Endowed

Posting Date: 1/24/91

Perform custodial care of assigned areas to include mopping, dusting and vacuuming. Must be able to follow instructions and work effectively for extended periods without supervision.

Requirements: High School education or equivalent. Must be able to read and write. Some experience in custodial work with commercial cleaning equipment. Must be able to lift 50 pounds, climb an 8 foot ladder and be in good physical condition.

Custodian, S002 (G7003)

Buildings Care-Statutory

Hiring Rate: \$6.27

Posting Date: 6/13/91

Provide general custodial care of buildings and grounds in immediate vicinity of assigned area. Monday-Thursday, 6am-2:30pm, Friday 6am-1:30pm
Requirements: Basic reading and writing skills. Able to operate a variety of heavy power equipment, lift 50 pounds and climb an 8 foot ladder. Regular Cornell employees only. Please send employee transfer application to Esther Smith, Staffing Services, East Hill Plaza.

General Service Off-Campus**Custodian, GR16 (G6103)**

Buildings and Properties/Geneva Experiment Station-Statutory

Hiring Rate: \$6.39

Posting Date: 6/6/91

Custodial duties to maintain assigned areas of buildings clean and well kept. Duties include trash removal, sweeping, dust moping, wet moping, vacuuming and general cleaning tasks.

Requirements: Basic reading and writing skills. 3 months job related experience with knowledge of cleaning equipment operation and use of cleaning supplies. Ability to climb 8' ladder and lift 50 pounds. Regular Cornell employees send employee transfer application to Esther Smith, Staffing Services, East Hill Plaza.

Academic**2 positions, Research Associate II**

Cornell Food and Nutrition Policy Program

1-2 year position in Washington D.C

1-2 year position in Africa

To plan, conduct and report original research pertaining to food and nutrition policy in developing countries.
Requirements: Ph.D. in economics, agricultural economics or related field, nutrition. Strong analytical skills. And abilities; experience in analysis of poverty, food and agricultural issues of developing countries, and experience working with interdisciplinary teams is desirable. Applications appreciated by July 22, 1991. Interested individuals should apply to: Deputy Director, Cornell Food and Nutrition Policy Program, 1400 16th Street, NW, Suite 420, Washington, D.C. 20036.

Senior Extension Associate (CA7)

Agricultural and Biological Engineering

Develop, implement, and evaluate a comprehensive, direct-service and educational program in the special needs and services for farmers who are farming with a disability.

Requirements: Ph.D. with a major in rehabilitation, health care, education, human development, or similar fields. A minimum of five years experience, including rehabilitation, counseling, personnel management, work-site modifications, and agricultural activities. Ability to plan, organize, teach, and evaluate programs in rehabilitation. Ability to work closely and harmoniously with people is a must. Send application materials to John Pollock, 334 Riley Robb, Cornell University, Ithaca, NY 14853-2801.

Lecturer/Acting Director

Laboratory Nursery School-Statutory

Starting in September 1991

Supervise the head teachers and other staff of the nursery school, planning for and operating the nursery school program, recruiting and selecting children, fostering relationships with the families, planning for security and welfare of the children, managing access to the children by students and faculty for instructional and research purposes supervising the use and maintenance of equipment and spaces, and continuing the development of the new full-day program (recruiting teachers and children, putting into operation the transition plans, etc. This is a half-time, untenured appointment for 10 months.

Requirements: Applicants should have at least a Master's degree in child development or a related field. Several years of nursery school or day care experience and evidence of skill in administration. Interested persons should send their credentials to: Dr. George Suci, Chairperson, Human Development and Family Studies, NG14 MVR Hall, Cornell University, Ithaca, NY 14853-4401.

Senior Extension Associate, CA7

Agricultural and Biological Engineering

Develop, implement, and evaluate a direct-service and educational program on rehabilitation for farmers with disabilities. Coordinate the development of county wide task forces and provide training on workplace adaptive modifications. Cooperate with and supervise an occupational therapist and manage individual case load. Communicate and interact with agricultural leaders and rehabilitative agencies in service area.
Requirements: Ph.D. in human development, rehabilitation, medical care, or similar fields. Minimum of 5 years in management of rehabilitation services. Knowledge and experience with northeast agricultural and Cooperative Extension. Send resume to John Pollock, 334 Riley-Robb Hall, Cornell University, Ithaca, NY 14853.

Cornell Employment News

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

Cornell University is committed to assisting those persons with disabilities who have special needs. A brochure describing services for persons with disabilities may be obtained by writing to the Office of Equal Opportunity, Cornell University, 234 Day Hall, Ithaca, NY 14853-2801. Other questions or requests for special assistance may also be directed to that office.

Cornell Summer Preview

Published by the Cornell University Division of Summer Session, Extramural Study, and Related Programs

One Hundred Summer Sessions at Cornell by Glenn Altschuler

This year marks the one hundredth anniversary of the Summer Session at Cornell University. In 1892, with courses ranging from botany to philosophy, from art to physical training, the first Summer Session was open to women as well as men and offered instruction to teachers in the primary and secondary schools as well as to Cornell undergraduates.

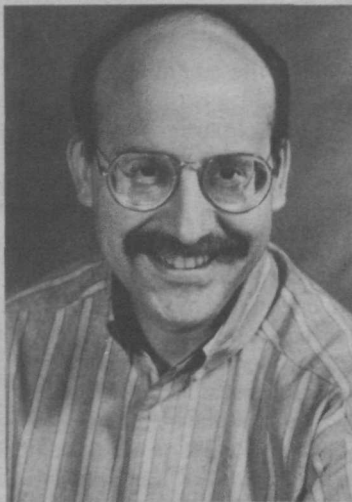
In the last century much has changed: the cost of board and lodging is no longer set at \$4-6 per week; and the city of Ithaca, some say, can no longer be characterized as "easy of access." But in its essence, summer at Cornell has the very same qualities as those described in the 1892 course catalog. The campus still is "delightfully situated in the beautiful lake country of Central New York, with its lake, hills and glens." A varied and challenging curriculum, including "every opportunity for original research," is offered "under University instructors, by University methods, and with access to University libraries, museums and laboratories."

And the Summer Session not only reaches out to Cornell students, but offers programs in

professional education, continuing education, and classes for high school students, Cornell University alumni, advanced graduate students, and non-matriculants.

To commemorate our centennial, we have chosen the theme "Innovations in Teaching and Learning." This theme seems appropriate, not only because the Summer Session has encouraged instructors and students to think about education in new ways, but because the time seems right for perestroika in pedagogy in American universities.

Over the years, the Summer Session has provided a unique educational environment. In contrast to the fall and spring, where students learn to juggle four or five courses and cram for two or three prelims in the same week, in the summer they can focus intensively on a limited number of courses. Both systems provide valuable preparation for the "real world," but it may well be that total immersion is more appropriate to certain subjects (as Cornell's FALCON program in Asian languages has demonstrated) or more productive for certain students (one of my math-phobic advisees will



David Lynch-Benjamin

Glenn C. Altschuler

devote herself exclusively to calculus this summer).

Until recently I was a skeptic about whether or not a brief summer session was really equivalent to a fifteen-week semester. Several years ago, however, I was asked to fill in for a faculty member in the Three-Week Session. Three weeks to cover 150 years of American history! I knew the number of hours in the classroom was the same as it was during the fall and spring. But could the students absorb the material?

The class turned out to be one

of the most rewarding I have ever taught. The students read about 100 pages each day, and their papers reflected a sophisticated understanding of American history. While life doesn't often allow us to study one thing at a time, it may well be that we should make a place for these "modules" during the fall and spring.

My class was no doubt successful because it was small: thirteen students in contrast to almost two hundred that spring. I got to know not only the name, but the interests, strengths, and weaknesses of every student in the course. Fortunately, Cornell offers hundreds of small courses during the fall and spring, but it is wonderful, it seems to me, to be able to offer students a choice of Government 111, taught by Professor Ben Ginsberg in a lecture hall for 500, and the same course, taught by the same professor, with an enrollment of a dozen or two.

The Summer Session, moreover, allows faculty to try out new courses and approaches. It allows students to broaden their curriculum by taking classes they had no room for in the fall and spring. In the summer, a history of art major might enroll in "Principles of

Real Estate," while an engineer signs up for "Creativity and the Actor." The best education is one that is broad as well as deep. In a world in the midst of a knowledge revolution, a world in which we will change jobs and careers again and again, we must continue to find ways to encourage learning that is not too narrowly practical.

As the Summer Session begins its second hundred years, I enter my freshman year as dean. It is a pleasure to be associated with a Division that offers so much to students of all ages, levels of academic preparation, and goals. I hope you will demand much of us during your time here, that you will attend many extracurricular activities, and that you will be an innovative learner. Let's make the centennial summer the best one we have ever had.

Glenn C. Altschuler, associate dean of the College of Arts and Sciences, assumes his new position as dean of the Division of Summer Session, Extramural Study, and Related Programs on July 1, 1991.



Bringing Teachers Back to School by Wendy Calaway

The Cornell Institute for Biology Teachers (CIBT), now in its second year, is a summer program aimed at improving the teaching of high school biology. About 40 teachers from within a one hundred mile radius of Ithaca participate in the program, which this year takes place July 7-26. The program is cosponsored by the Howard Hughes Medical Institute, the National Science Foundation, Cornell University Summer Session, and Cornell's Division of Biological Sciences.

"Biology moves very quickly and we want to help keep teachers current."

—Dr. Rita Calvo

The teachers take one of the two courses offered: either molecular biology or a new course on evolution, ecology, and behavior.

Though the CIBT is new,

Cornell has historically been involved in science education programs. In 1899 a "nature-study" course was offered to New York State teachers "free of tuition." That year's catalog says "it is the purpose of the course to teach both the facts and the methods of serious nature-study, with particular reference to fitting teachers to take up the work in their own schools." The topics comprising the course, which was directed by Professor Anna Botsford Comstock, were "nature study

on the farm, nature study in insect-life, and nature study in plant-life."

CIBT tuition and fees, including housing costs, are paid by the Institute. The teachers receive a stipend; three Cornell credits in biological science; funds to purchase supplies for their high school labs; and an Apple Macintosh computer on long-term loan.

While both the 1899 nature-study course and the CIBT program focus on improving science education, today's Institute reflects the challenge of keeping up with the fast-changing world of science. Cornell Division of Biological Sciences director Peter Bruns says the CIBT is designed to combat the problem of rapid technological advancement, which often leaves busy high school teachers behind. "Our program is designed to inform them through lectures, laboratories, field trips, and workshops," says Bruns.

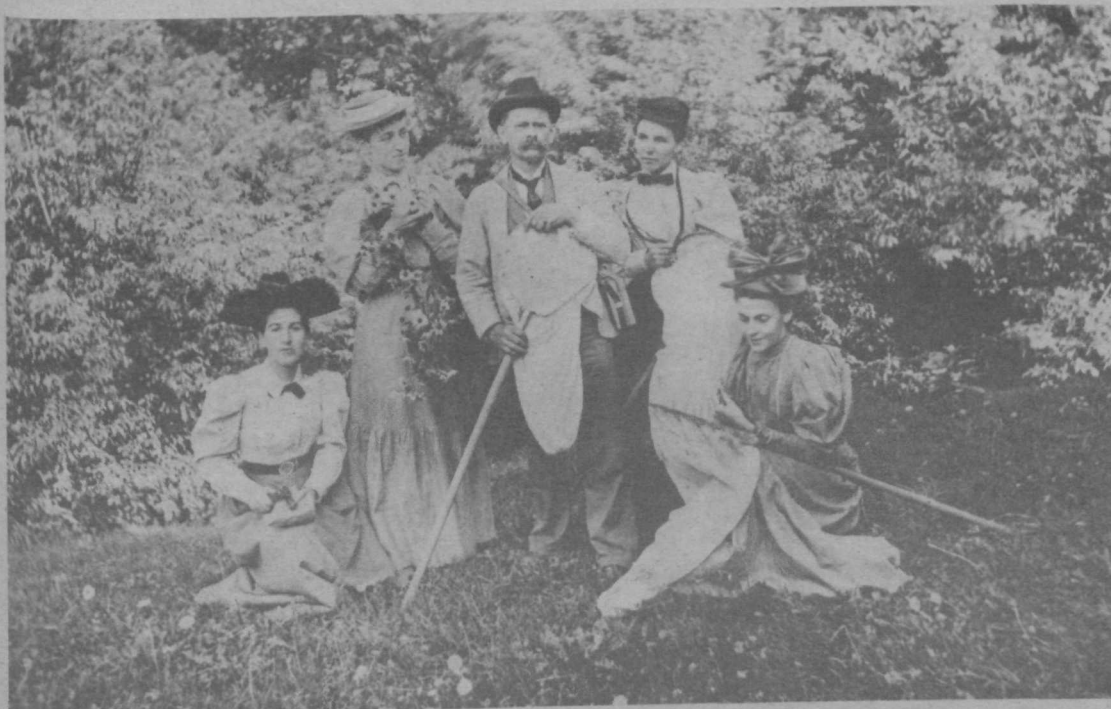
Another problem teachers face is a lack of resources. With limited funding and standardized curriculum, making lab work interesting for students can be a challenge. "There is little hands-on experience," says Dr. Bruns. To counter this, the CIBT provides "materials and equipment needed to implement the labs and generally improve conditions for laboratory instruction in the high schools," Bruns says.

Currently, many high schools in the state do "paper labs," according to Dr. Rita Calvo, of the department of biological sciences, who is responsible for program outreach. "We try to find labs that are open-ended and not cookbook types," she says. Calvo says the CIBT gives teachers an opportunity to try out and personalize labs to use in their classes. Besides learning labs to pass on to their students, the teachers do experiments to help them understand advanced biological principles. "Some labs are just for teacher enrichment," says Dr. Calvo.

A core function of the CIBT is to facilitate continuing interaction among teachers. "There is a lot of exchange of information" in the time the teachers spend at Cornell, according to Calvo. One of the most important things the teachers take with them, Calvo believes, is the ability to network with each other and Cornell faculty. "Biology moves very quickly," she says, "and we want to help keep them current."

Dr. Bruns agrees. "Interac-

(continued on page 2)



Professors Anna Botsford Comstock and John Henry Comstock with a nature-study group. Courtesy of the Department of Manuscripts and University Archives, Cornell University Library.

(Teachers, continued)

tions with colleagues have a liberating effect on high school teachers," he says. "They blossom in these interchanges." The overall goals, according to Bruns, are "to produce a network of updated biology teachers and to expand the use of Cornell as an ongoing resource in secondary education." The teachers who participate in CIBT are brought back to campus a few times every year for workshops to keep current on biology and share information.

Many of last year's participants plan to return this year to take the evolution, ecology and behavior course. Harriet Bongiorno, a tenth and twelfth grade biology teacher at Union-Endicott Senior High School, says "probably eighty percent of last year's teachers are signing up for another program," at Cornell or elsewhere. "That's how impressed we were," says Bongiorno.

Ms. Bongiorno learned about the program through a brochure at the State Science Fair, and participated because she wanted to learn more about molecular biology. "It was much more than I anticipated," she says. "It was 'A plus': absolutely

phenomenal." Being away from home for a few weeks was a big concern, but "it was worth it," she says. "I got updated on molecular biology and became computer competent." Bongiorno adds "the ability to network and the contact with the Cornell faculty was very important."

Michael Skelly, who teaches tenth and twelfth grade biology at Fayetteville-Manlius Senior High School said the program was "very well organized, and very high-powered." Especially interesting, says Skelly, were the people who came to discuss the New York State Regents syllabus and the direction it is taking.

Mr. Skelly says "it's nice to meet other teachers," and adds that their ongoing computer network is quite valuable for sharing course and personal information. Using the computers turned out to be more time-consuming than he expected. "Computers became the tail that wagged the dog," says Skelly. Many of the participants were new to computers, he adds, which meant they had to learn about using the machines as well as about molecular biology.

In order to correct this problem, the Institute this year will offer a workshop on Macintosh operation and word processing for two days (July 5 and 6) before the Institute begins.

Overall, Mr. Skelly says the program was "pretty intense." He is coming back for the evolution course this summer, and says he would recommend the program. "It made me think, 'What do I want to present to the kids?'" The Institute, Skelly says, "is run by some really good people. They're the right ones to be doing it."

Wendy Calaway, office assistant in the Division of Summer Session, Extramural Study, and Related Programs, is a freelance writer.



Boy and pet crow from Comstock Papers Collection. Courtesy of the Department of Manuscripts and University Archives, Cornell University Library.

Undergraduates in the Lab

by Marilyn Williams

For many undergraduates (about 2,000 each year) a main benefit of a Cornell education is the opportunity to join with professors and graduate students in the task of enlarging our store of knowledge. But in the fall and spring terms, schedules are crammed with courses. To enable more students to experience the life of a researcher, faculty and departments actively seek funding to support undergraduate research during the summer.

For instance, the New York State cluster of the Pew Program in Undergraduate Science Education, led by Yervant Terzian, chair of the Department of Astronomy, supports undergraduate researchers with awards from the National Science Foundation's "Research Experiences for Undergraduates" (REU) program. The Division of Biological Sciences and director Peter Bruns provide research experience for gifted majors in biology with the support of the Hughes Foundation. The emphasis of the summer research programs is on what students learn, rather than what they contribute to the research project.

What do the students do? First, they find faculty members whose research particularly interests them. When the student's imagination and intellect are engaged, she or he is on the way to becoming a colleague—albeit a very junior one—in the enterprise. As they work closely with faculty members and graduate students, they experience the excitement of discovery. They learn that successful research often comes from a team effort that synthesizes the initiatives and talents of many individuals. They share in the difficulties of planning and executing research and learn to organize themselves for the real world of imperfect answers to sometimes fuzzy questions.

Brian Gally, a junior majoring in materials science, is working with professor Che-Yu Li, materials science and engineering, on a machine to reduce the size of solder joints in computer chips. The number of connections between chips and substrates may increase as the size of the connection diminishes, so the net result will be to make computers faster.

Gally observes that "Cornell



Michael Green

A student in the Biological Sciences Undergraduate Research Program working in the lab.

lets me see more of what real engineering is, and gives me a chance to see what professors do and to work in a research group."

Aaron Chou, a sophomore from Woodbury, Minnesota, who is majoring in physics, says "It's really neat here, there are so many opportunities to do research as an undergraduate."

"Cornell lets me see more of what real engineering is, and gives me a chance to see what professors do and to work in a research group."

—Brian Gally

Last summer Chou worked on a computer modelling project. This summer he will be working with professor A.J. Sievers, physics, at the Wilson Synchrotron.

Last fall a course in optics opened a brand new field to Chou. Now he will study the diffraction patterns of light given off by particles when they accelerate and collide. The diffraction patterns make it possible to "see" what the original clump of electrons looked like.

Jill Schiffhauer, ALS '91, from Grand Island, New York, participated in Biology's Hughes Program for undergraduates last year. She worked with Professor June Nasrallah, plant biology, in genetic

experimentation. Among other things, Jill shot altered genes into healthy cells and tested how the changes affected the cells' functioning.

Jill was excited by the experience, since it was "the first time I got to see what research in the real world is like. In lab courses you just repeat what has already been proven; if it doesn't work, you know that if you were to try again it would come out 'right.' There is no such certainty in research."

Summer also offers an important occasion for getting acquainted with research environments at other universities. About one-half the students who engage in research here during the summer come from colleges and universities in the other 49 states. At least as many Cornellians engage in research at other places.

Most of the participants in the research program will be making presentations at the Undergraduate Research Forum, Thursday, August 1. The public is invited to attend the Convocation. Don Randel, Dean of the College of Arts and Sciences and Professor of Music, will address the convocation on the subject of "curiosity." The day's schedule and abstracts of the talks will be available at the Straight Desk, library reference desks, and the Summer Session office a few days before the Forum.

Marilyn Williams, assistant dean of the College of Arts and Sciences, is director of the Undergraduate Research Program.

Division of Summer Session, Extramural Study, and Related Programs

Cornell Summer Preview

B12 Ives Hall, 255-4987

Cornell University Summer Session

B12 Ives Hall, 255-4987

Extramural Study

B12 Ives Hall, 255-4987

Programs in Professional Education

B12 Ives Hall, 255-4987

Cornell University Conference Services

221 Robert Purcell Union, 255-6290

Cornell's Adult University

626 Thurston Avenue, 255-6260

Cornell University Summer College

B12 Ives Hall, 255-6203

Winter Session

B12 Ives Hall, 255-4987

Continuing Education Information Service

B12 Ives Hall, 255-4987

Extended Education Information Service

B12 Ives Hall, 255-7259



Chip Tilden

Eight hundred high school students are participating in Cornell's 1991 six-week Summer College program.

Free Cultural Events Explore Summer Theme

In celebration of the one hundredth Cornell University Summer Session, the 1991 summer theme is "Innovations in Teaching and Learning." Summer at Cornell has traditionally been a time for both student and teacher to experiment with new approaches in education. Many of the free cultural events, which take place almost daily for six weeks beginning June 24 (see schedule on page 4), address issues related to innovative teaching and learning.

Pamela Henson will present a lecture on July 17, "Teach Them to Love Nature: Anna Botsford Comstock and the Nature Study Movement at Cornell, 1893-1930." Henson, a science historian at the Smithsonian Archives, is interested in natural history and its beginnings as a field of study. Dr. Henson conducted much of her thesis research on the Comstocks at the Cornell Library Department of Manuscripts and Archives, and she is now writing a chapter on the working relationship of Anna Botsford and John Henry Comstock for

Many of the free cultural events, which take place almost daily for six weeks beginning June 24, address issues related to innovative teaching and learning.

Creative Couples in Science.

Anna Botsford Comstock (1854-1930), who was the first woman to be appointed professor at Cornell, was a leader in the nature study movement, lecturing across the United States and serving as editor of the *Nature Study Review*. Her 1911 *Handbook of Nature Study* remains in print today. Comstock was also a well-known illustrator, using meticulously cut wood blocks to make prints of insects and animals she observed.

Robert Hazen, research scientist at the Carnegie Institution of Washington's Geophysical Laboratory and

by Martha Garrison

Robinson Professor of Earth Science at George Mason University, will speak July 31 on "Achieving Scientific Literacy for All Americans." He will talk about the current state of science education and what the quality of that education means for the future.

Hazen, author of 160 articles and seven books on earth science, materials science, history, and music, is active in presenting science to a general audience. He teaches a course for undergraduates at George Mason University on symmetry in art and science and developed a methods course for public school science teachers in the District of Columbia.

"Students often perceive science as a set of difficult and unrelated fields of study and fail to grasp the interconnections," Hazen says. "If we expect graduates to deal with issues that involve many related scientific disciplines, then we should, at some stage in the educational process, convey an integrated view of science."

Two midday performances illustrate the far-reaching potential of innovative approaches to learning. On June 27, dancers from the Ithaca Senior Citizens' Center will present a lecture and performance of modern and tap dance. The modern dance section, called "A Celebration of Life," will involve the audience in the dance physically, spiritually, and intellectually.

On August 1, Janet Salmons-Rue, director of the Theatre Arts Outreach Program, and several actors from Theatre Cornell, will demonstrate "Interactive Theatre: A Resource for Training and Education." The Outreach Program uses live performance to educate and train people about specific issues. This approach is called interac-

Tours Show High-Tech Advances at Cornell

Two new tours (see schedule on page 4) sponsored by the Cornell University Summer Session provide insight into technological advances at Cornell: the Computer-Aided Design Instructional Facility (CADIF) and the Spacecraft Planetary Imaging Facility (SPIF).

CADIF consists of 25 full-color, interactive, high-end graphics workstations, eight text terminals, and fourteen workstations for developing new programs. This facility is used by Cornell engineering students for doing analysis, design projects and data visualization.

Kate Mink, director of educational computing at CADIF, remarked that "students using the workstations can run through a huge range of possible solutions to real-world, open-ended projects. They learn to formulate problems as well as to solve problems posed by others."

SPIF, sponsored jointly by NASA's Planetary Geology Program and Cornell University, has over 100,000 images returned from the United States planetary exploration program. The collection encompasses images from the earliest Ranger photographs of the moon through the most recent data returned from the Voyager encounter with Neptune, the Magellan Venus mapping mission, and the Galileo flybys of Venus and the Earth and moon. SPIF also has a computer system that allows rapid searching and selection of available images and an image processing system for users to enhance planetary images.

According to Rick Kline, data manager at SPIF, the Magellan mission began mapping Venus with its radar-imaging system in August, 1990, and has produced so much data that a technique had to be developed to allow researchers to view a large volume of data at one time. "The 3-D movies of the surface of Venus that are a result of this technique are available for viewing at SPIF," he says, "and they are spectacular indeed."



Dennis Deloria

Dancers from the Ithaca Senior Citizens' Center, pictured above with the Liz Lerman Dance Exchange, will perform on June 27 in Anabel Taylor Hall Auditorium.

tive theatre because it relies on the audience's participation in active problem-solving. "This technique is very effective because it allows participants of different backgrounds to explore many points of view in a safe setting," says Judy Levitt, a principal actress in the program.

Issues presented by Theatre Arts Outreach for Cornell students, faculty members, administrators, and staff, as well as corporate and public school audiences, include date rape, racism, sexism, and child

abuse and neglect. During the presentations, the audience is encouraged to challenge or empathize with the actors, who stay in character.

"I have never seen anyone fail to be engaged," says Levitt. "The whole person, not just the intellect, is involved with sorting out the complexities of a racist or sexist situation."

Martha Garrison, coordinator of Summer Session special events, is a freelance writer.

Teaching Writing by Katherine Gottschalk and Harry Shaw

What do a full professor and a graduate student have in common during the warm summer months at Cornell? Both may share in innovative training offered by the John S. Knight Writing Program for those who will teach freshman writing seminars during the coming year.

The John S. Knight Writing Program is proud of the preparation graduate students receive before they take on the responsibility of a writing seminar—it's some of the most extensive training provided anywhere in the country. And faculty members have the opportunity both to participate in that training and to develop further their own expertise.

Whether a tenured professor, a senior lecturer, or a Ph.D. candidate, any freshman writing seminar instructor has a major responsibility: to teach seventeen students (the maximum class size) what it means to write well within a particular discipline. The professor in music may plan to offer a course in "Music Since 1965." The TA in biological sciences may offer

"Science in Society and Society in Science." In English, the topic may be "American Indian Literature—Traditions and Change."

Over 100 different freshman writing seminars are offered each semester; the faculty, lecturers, and TAs offering them come from over 27 departments, ranging from the Africana Studies and Research Center and Anthropology to Theatre Arts and Women's Studies.

How do graduate students get ready for their courses? Summer provides one of the major times for that preparation through a six-week training course, "Teaching Writing." The course introduces TAs to current theories of composition, especially in writing-across-the-curriculum, and asks them to prepare assignments for their proposed courses.

TAs are encouraged to consider possibilities beyond "Compare and contrast. . . ." What kinds of writing can help students read better? What kinds of writing will help them to synthesize and analyze

materials? What sequences of assignments, formal and informal, will best help students write to learn as well as learn to write?

Some TAs, at the time they are taking "Teaching Writing," also participate in the appren-

Teachers are encouraged to consider what will best help students write to learn as well as learn to write.

ticeship program. These TAs spend six weeks as trainees with the primary teacher in a Summer Session writing course. Besides observing the class and conferring with the primary teacher about his or her methods and goals, trainees have the chance to comment on papers, teach classes, and confer with students, all with the expert assistance of the primary teacher. Students in these classes benefit from a much

smaller teacher-student ratio than is normal: they may, for instance, have many more opportunities for conferences and for small group work.

For faculty members, a Faculty Seminar in Writing Instruction is led by James Slevin, a nationally known figure in writing theory and instruction.

Slevin, a professor of English at Georgetown University, conducts a two-day workshop before summer classes start for the Seminar participants who, this year, are Anne Adams, professor, Africana Studies and Research Center; Joe DeFilippo, professor, classics; David McCann, professor, Asian studies; Marilyn Migiel, chair and professor, medieval studies; and Leonard Olschner, professor, German studies. The participants then meet individually with Professor Slevin each week, while teaching their writing courses and assisting with the training of TAs.

Don Randel, the Given Foundation Professor of Musicology and the new dean of the College of Arts and

Sciences, is a past participant in the seminar. He speaks enthusiastically about his experience, saying he "particularly valued the sustained discussion of writing with colleagues in other fields and the regular occasions to discuss my own daily teaching with someone (James Slevin) who has thought long and hard about the nature of writing in the academy and the ways in which we try to teach writing to young people in this country." Professor Inta Ezergailis in German studies says that she "went into the seminar thinking I'd learn a few tricks about teaching and came out enthusiastic about how intellectually engaging this work can be."

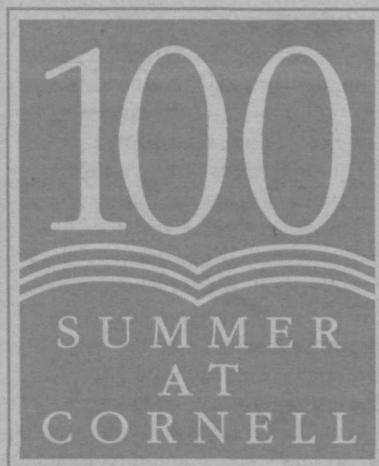
Katherine Gottschalk is director of the Freshman Writing Seminars, John S. Knight Writing Program, and senior lecturer in English.

Harry Shaw is director of the John S. Knight Writing Program and professor of English.

To receive
a Calendar of
Free Special
Events, call
255-4987.

Free Special Events

Join Us in Celebrating Our Centennial Summer!



Outdoor Concert Series

7:00 pm

(Rain location: Alumni Auditorium, Kennedy Hall)

Tuesday, June 25

French-Canadian music and contra dancing, Ted Crane and Hommage Québécois—Ag Quad

Thursday, June 27

Folk music, Anne Hills—Ag Quad

Friday, June 28

Latin American street rhythm, Agape Percussion Ensemble—Arts Quad

Tuesday, July 2

Johnny Russo's New Orleans Jazz Band—Arts Quad

Friday, July 5

Christopher Weitach Jazz Quintet—Arts Quad

Tuesday, July 9

Folk and bluegrass, the Hill Brothers—Arts Quad

Friday, July 12

Maelstrom Percussion Ensemble—Arts Quad

Tuesday, July 16

Traditional Southern mountain music, Mac Benford and the Woodshed All-Stars—Ag Quad

Thursday, July 18

Tropical rockin' swing, Coconut Therapy—Arts Quad

Tuesday, July 23

Rhythm and blues, Pete Panek and the Blue Cats—Arts Quad

Tuesday, July 30

Peggy Haine and the Lowdown Alligator Jass Band—Arts Quad

Friday, August 2

Caribbean dance music, Rising Sign—Arts Quad

Midday Seminars and Performances

Thursdays, 12:00 Noon

June 27

Performance: Modern dance, Elderberry Dancers, and tap dance, the Happy Tappers, from the Ithaca Senior Citizens' Center—Anabel Taylor Hall Auditorium

July 11

Seminar: "All TV Is Educational, But What Does It Teach?" John C. Condry, professor, human development and family studies—104 Rockefeller Hall

July 18

Seminar: "Teaching on Land and under Water: Cornell's Field School in Ireland," Robert T. Farrell, professor, English, medieval studies, and archaeology—104 Rockefeller Hall

July 25

Performance: Gilbert and Sullivan medley, the Savoyards—Memorial Room, Willard Straight Hall

August 1

Performance: "Interactive Theatre: A Resource for Training and Education," Janet Salmons-Rue, director, Theatre Cornell Outreach Program—104 Rockefeller Hall

**Please be sure to pick up your copy of the complete
Calendar of Special Events, or call 255-4987 to order one.**

Performing Arts Series

8:15 pm (except as noted)

Thursday, July 11

Dances from repertory, Ithaca Ballet—Alice Statler Auditorium, Statler Hall

Friday, July 19

Harpsichord, Joyce Lindorff, director, Cornell Summer Harpsichord Workshop—Room SB10, Center for Theatre Arts

Thursday, July 25

"Two O'Clock Jump," Hangar Theater's Big Band Revue—Alice Statler Auditorium, Statler Hall

Friday, July 26

"Early Music by Women Composers," by Elizabethan Conversation—Room SB10, Center for Theatre Arts

Thursday, August 1, 7:00 pm

Street theater, Tin Can Fantasy Factory—Arts Quad

Great Books Seminars

Tuesdays, 12:30 pm

105 Rockefeller Hall

**with William J. Kennedy, professor,
comparative literature**

June 25

"Socratic Sophism, Plato's *Phaedrus*"

July 2

"Gay Subversion, Petronius's *Satyricon*"

July 9

"Educating a Princess, Lady Murasaki's *The Tale of Genji*"

July 16

"Explaining Rapture, St. Theresa of Avila's *Autobiography*"

July 23

"Lecturing to a Prostitute, Dostoevsky's *Notes from the Underground*"

July 30

"Weathering Storms, Zora Neale Hurston's *Their Eyes Were Watching God*"

Tours

Tours of facilities on the Cornell campus have also been scheduled, including the Cornell University Insect Collection, the L. H. Bailey Conservatory greenhouse, the Computer-Aided Design Instructional Facility, the National Supercomputer Facility, the Johnson Museum galleries, the Spacecraft Planetary Imaging Facility, the Robison York State Herb Gardens, as well as a walking tour of campus.

Summer Concert Series

Mondays, 8:15 pm

June 24

"All Mozart," fortepiano, Bart van Oort—Sage Chapel

July 1

"Music from France for Organ and Voice," organ, George Edward Damp, visiting associate professor, music, with Katharine Gottschalk, David Caghey, and members of the Sage Chapel Summer Session Choir—Sage Chapel

July 8

Haydn Symphonies, Apollo Ensemble, conducted by John T. Hsu, professor, music—Sage Chapel

July 15

Cello and piano, Robert Albrecht and Michael Salmirs—Sage Chapel

July 22

"Marcello to Mozart," Musical Offering Ensemble—Sage Chapel

July 29

Fortepiano and baroque violin, Yoshio and Keiko Watanabe—Sage Chapel

Summer Lecture Series

Wednesdays, 7:30 pm

Alumni Auditorium, Kennedy Hall

June 26

"Where Have All the Teachers Gone: Looking Back at the Future of Higher Education," Glenn C. Altschuler, associate dean, College of Arts and Sciences; dean (starting July 1), Division of Summer Session, Extramural Study, and Related Programs

July 10

"Stages for Balancing a Complicated Life," Marjorie McKee Blanchard, president of Blanchard Training and Development and author of *The One Minute Manager Gets Fit*

July 17

"Teach Them to Love Nature: Anna Botsford Comstock and the Nature Study Movement at Cornell, 1893-1930," Pamela M. Henson, historian, Smithsonian Archives

July 24

"Keeping Overworked Doctors Current in the Face of Galloping Technology: Continuing Medical Education Today," Stephen S. Scheidt, assistant dean, continuing medical education, and professor, clinical medicine, Cornell University Medical College

July 31

"Achieving Scientific Literacy for All Americans," Robert Hazen, professor, Geophysical Laboratory, Carnegie Institution of Washington, and co-author, *Science Matters: Achieving Scientific Literacy*

Summer 1992: A Look Ahead

The 1992 Cornell University Summer Session theme will be "The Human Race and Our Environment." We invite you to help us plan our events around this theme. Let us know the issues you would like us to consider and who you would like to hear and see as lecturers and performers. Please call the special events coordinator at 255-7420 with your suggestions. We hope that our theme will be a catalyst for community discussion and involvement in exploring the relationship of human activity and the physical world. Join us again in 1992!

**Division of Summer Session,
Extramural Study, and Related Programs
B12 Ives Hall, Ithaca, New York 14853
(607) 255-4987**

CORNELL
UNIVERSITY

CORNELL EMPLOYMENT NEWS

ne 27, 1991

Volume 3, Number 24

JOB OPPORTUNITIES

THE UNIVERSITY, IN RESPONSE TO THE NEW YORK STATE BUDGET REDUCTIONS, is recruiting only for those vacant positions considered to be essential to the operation of the university. We continue to encourage, accept, and refer applications from Cornell employees and from external applicants for these positions unless noted otherwise in the individual listing. When qualified laid off employees are available for a particular vacancy, they will be given first consideration for that position.

Staffing Services, 160 Day Hall, Cornell University, Ithaca NY 14853-2801
Day Hall: (607) 255-5226 East Hill Plaza: (607) 255-7422

Employees may apply for any posted position with an Employee Transfer Application. A resume and cover letter, specifying the job title, department and job number, is recommended. Career counseling interviews are available by appointment.

Requests for referral and/or cover letters are not accepted from external candidates unless specified in the ad. Candidates should submit a completed and signed employment application which will remain active 4 months. Interviews are conducted by appointment only.

- Staffing Services will acknowledge receipt of all material by mail. Hiring supervisors will contact those individuals selected for interview by phone; please include two or more numbers if possible. When the position is filled, candidates should receive notification from the hiring supervisor.
- Cornell University is an equal-opportunity, affirmative-action educator and employer.
- Job Opportunities can be found on CUINFO

Professional

onacademic professional positions encompass a wide variety of fields including management, research support, computing, development, finance and accounting, dining services and health care. All external candidates must have a completed signed employment application on file with Staffing Services before they can be interviewed for a position. Submit a resume and cover letter for each position, specifying the job title, department & job number. Employees should include an Employee Transfer Application.

Systems Program Analyst III (PT7201) Level 34
Electrical Engineering-Endowed
Posting Date: 6/27/91

With the EE Learning Station Project as the primary responsibility, develop innovative educational software and hardware for use in undergrad Use Hypercard, C, Pascal, Assembler and Review II on Macintosh and IBM PC. Link software to hardware labs. Investigate multimedia tools and evaluate new software problems. Set up and maintain new lab experiments. Coordinate projects with faculty. Supervise students. This is a 1 year appointment.

Requirements: Bachelor's in electrical engineering or computer science. 3-5 years experience using assembly language and high level programming analog circuit design. Send cover letter and resume to Sam Weeks.

Applications Consultant/Advisor III (PT7006) Level 34
Cornell Information Technologies/WR-Endowed
Posting Date: 6/13/91

Provide expertise and leadership in evaluating and supporting personal productivity tools and their integration. Emphasis on spreadsheet, database, and word processing packages for varied workstations and networks, especially IBM and Macintosh microcomputers. Provide consulting, workshops, and documentation for colleagues and users.

Requirements: Bachelor's or equivalent experience. 2-5 years microcomputer experience: IBM and Macintosh productivity tools and their integration, especially spreadsheets and databases, preferably including networked versions. Consulting services experience preferred. Need leadership, organizational, and communications skills (oral and written). Send cover letter and resume to Sam Weeks.

Systems Programmer/Analyst II (PT7105) Level 33
Materials Science Center-Endowed
Posting Date: 6/20/91

Develop and maintain the Material Science Center (MSC) computer systems and software in support of the research programs of MSC through multi-user computing facility. Provide general administrative and technical support for student users. Provide major consulting assistance to a growing user community. Assess, develop, maintain and document software utilities and libraries. Maintain hardware and software. Perform disk backups.

Requirements: BS degree or equivalent in physical sciences, engineering or computer science. Ability to create and maintain complex software systems. Experience in FORTRAN, C, and UNIX. Send cover letter and resume to Sam Weeks.

Application Programmer/Analyst II (PT5502) Level 33
Financial Systems Development-Endowed
Posting Date: 2/28/91

Design, develop, modify and document straight forward applications systems software supporting a major administrative system. Analyze functional and performance requirements and develop software improvements in usability and efficiency. Diagnose problems in production system software and make emergency repairs. Write production procedure, JCL and user manuals. Provide users with conceptual and technical help. Maintain a working knowledge of two major commercial programming languages.

Requirements: Bachelor's or equivalent with computer courses. Knowledge of at least 2 languages: PL/1, NATURAL, COBOL. Knowledge of applications for interactive and batch administrative systems, database management systems, machine architecture, system utility programs, and VM/CMS. Send cover letter and resume to Sam Weeks.

Director Law School Annual Fund (PA7203) HRII
Public Affairs/Law School-Endowed
Posting Date: 6/27/91

Works with the Law School's Assistant Dean for Development and Public Affairs in the development of programs for the school's annual fund and the Leadership Gifts program.

Requirements: Bachelor's degree. At least 5 years extensive successful fund-raising experience in alumni campaigning. Management skills and refined organizational skills. Ability to motivate people and work creatively with volunteers. Send cover letter and resume to Cynthia Smithbower.

Assistant Director, Capital Projects (PA7101) HRII
University Development-Endowed
Posting Date: 6/20/91

Responsible for providing complex logistical support for the management, coordination and execution of capital gift fund raising initiatives that are oriented toward individuals who have the capacity to give \$5 million or more.

Requirements: Bachelor's degree or equivalent. Three years progressively responsible professional experience in higher education fund raising or volunteer management. Keen sensitivity to human relations in working with staff and volunteers. Excellent communication and writing skills. Strong administrative, management and organizational skills. Send cover letter and resume to Cynthia Smithbower.

Copy Editor (PC7105) HRI
Publications Services/University Relations-Endowed
Posting Date: 6/20/91

The copy editor edits and proofs manuscripts, assists in producing subsequent production stages, and works with clients, designers, and support personnel during the entire process of producing printed publications.

Requirements: Bachelor's degree required. 2-3 years related working experience with computers and word processing programs (specific experience with Macintosh computers and Microsoft Word is desirable.) A sensitivity to language, nuance, and tone. A high regard for precision and accuracy. Attention to detail and fact. Ability to work both independently and closely with others. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Teaching Support Specialist II (PT7107) HRI
Applied & Engineering Physics-Endowed
Posting Date: 6/20/91

Manage 4 teaching labs used by over 300 students. Maintain optics, laser and computer labs. Maintain Mac network. Set up lecture demonstrations and provide students with required equipment. Provide technical assistance and training in operation of lab equipment and experiments. Maintain files on all lab experiments including descriptions and operation guides. Design and fabricate new teaching demonstrations. Procure equipment and maintain supply inventory. Supervise student employees.

Requirements: BS or equivalent experience in relevant field of science or engineering. Working knowledge and experience with electronics, digital and analog circuitry, vacuum systems, mechanical fabrication and optics. Experience with Pascal and MS-DOS very desirable. Experience with high voltage desirable. Initiative, self motivation, organizational skills, strong service orientation and ability to work well with students are essential. Send cover letter and resume to Sam Weeks.

Reunion Assistant (PA7004) HRI
Alumni Affairs-Endowed
Posting Date: 6/13/91

Reports to the Associate Director of class programs and assists with all aspects of reunion planning and execution.

Requirements: Bachelor's degree preferred. 1 year related experience. Strong organizational skills, strong oral and written communication skills, knowledge of Appli MacIntosh computer. Send cover letter and resume to Cynthia Smithbower.

Shop Manager (PT7010) HRI
Civil and Environmental Engineering-Endowed
Posting Date: 6/13/91

Supervision of all activities in CEE machine shop for timely completion of construction, modification and repair of specialized equipment in instruction and research labs. Maintain all equipment. Supervise shop staff. Work with CEE administrative staff to assist in logistics of school functions and building coordination.

Requirements: Associate's or Bachelor's in engineering heavily desirable or must have completed a technical or trade school together with apprenticeship program a machinist. Must have demonstrated experience in design and planning of complex fabricated installations or equipment. Minimum 5 years experience in supervisory role in a machine shop or fabricating floor necessary. Some knowledge of electronics, instrumentation, computers required. Familiarity with plumbing and carpentry desirable. Send cover letter and resume to Sam Weeks.

Research Support Specialist (PT6607) HRI
Soil, Crop & Atmospheric Sciences-Statutory
Posting Date: 5/16/91

To provide technical support for the research program in low temperature biology, with primary responsibility for a) the isolation, purification and analysis of membrane lipids and b) studies related to the cryopreservation of both plant and insect germplasm. In addition, the individual will oversee and manage the day to day operations of the low temperature biology laboratories including the operation and maintenance of sophisticated analytical instruments and procurement of materials and supplies.

Requirements: Bachelor's or Master's in biochemistry or chemistry. Experience in the operation and maintenance of gas chromatograph/mass spectrometer, HPLC equipment and ultracentrifuges. A minimum of 5 years laboratory experience with a background in either plant or insect physiology/biochemistry. Send cover letter and resume to Sam Weeks.

Professional Part-Time

Executive Staff Assistant (PC6701) HRI
Vice President for Academic Programs and Campus Affairs-Endowed
Posting Date: 5/23/91

Responsible for implementing programs for the Access to College Consortium and the Cornell Committee on Education and the Community under the direction of Director of Public Service and Outreach Programs. 25 hours per week. Hours flexible. Monday-Friday, 8:00a.m-5:00p.m. 10 month position, August-June.

Requirements: Bachelor's or equivalent experience. Excellent verbal, interpersonal and organizational skills. Ability to work independently, often under pressure and short deadlines. Computer skills, preferably Macintosh. Knowledge of CU and public schools helpful. Experience in program development. Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza. External applicants send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

CORNELL ALUMNI NEWS

Circulation Assistant
Minimum Biweekly Salary: \$525.00
Posting Date: 6/13/91

Assist with all aspects of circulation management for monthly magazine. Interact with Cornell Class Officers and Cornell Alumni Affairs staff. Continually update various circulation records. Data entry. Heavy clerical work. Answer phones as needed. Monday-Friday, 3 hours per day.

Requirements: High School diploma or equivalent. Light typing and 10-key ability, 1-2 years experience in office environment. Attention to detail critical. Familiarity with PC compatibles essential. Knowledge of Cornell Public Affairs Records Computer system helpful. Ability to interact well with various types of people. Send cover letter and resume to Andy Wallenstein, Cornell Alumni News, 55 Brown Road, Ithaca, NY 14850. This is not a Cornell University position.

Technical

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

All external candidates must have a completed signed employment application on file with Staffing Services before they can be interviewed for a position.

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

Technician, GR18 (T7207)
Genetics and Development-Statutory
Minimum Biweekly Salary: \$542.89
Posting Date: 6/27/91

Provide technical support for the general operation of a genetics research lab. Perform experiments in yeast genetics and molecular biology using standard microbiological procedures and some specialized techniques. Analyze nucleic acids and proteins. Record data. Order supplies,

maintain records and report on radioisotope usage. Provide training. Weekend and evening hours frequently required.

Requirements: Associate's degree in biology (or equivalent) with an interest in genetics. Minimum 1 year related experience. Work in a research lab is highly desirable. Willingness and ability to learn new procedures. Send cover letter and resume to Sam Weeks.

Technician, GR18 (T6709)
Plant Pathology-Statutory
Minimum Biweekly Salary: \$542.89
Posting Date: 5/23/91

Assist in laboratory, greenhouse, and field experimentation leading to the development of improved control methods for the golden nematode of potatoes. Plant and harvest potatoes. Prepare nematode inoculum and inoculate plants. Lay out, plant, and care for experimental plots. Collect and analyze data

Requirements: Associate's in Agriculture with 2 years experience in plant propagation. Minimum 1 year related experience. Knowledge of and experience with plant propagation in greenhouse and field. Familiarity with basic laboratory equipment. Send cover letter & resume to Sam Weeks.

Technician, GR19 (T7204)
Psychology-Endowed
Minimum Biweekly Salary: \$566.28
Posting Date: 6/27/91

Collect and analyze data from children at elementary area schools and preschools. Perform library and paper work. Prepare research reports. Position until 1/31/92.

Requirements: Associate's in Psychology or equivalent. 1-2 years related experience. NYS driver's license and ability to drive research van. Knowledge of computers. Comfortable around children. Good math skills. Send cover letter and resume to Sam Weeks.

Technician, GR19 (T7206)
Veterinary Pathology-Statutory
Minimum Biweekly Salary: \$566.28
Posting Date: 6/27/91

Provide technical support for activities in a flow cytometry lab including cell cultures and protein and nucleic acid analysis. Perform experiments on the effect of oncogenes and chromosomal alterations on cell differentiation. Order supplies, maintain lab order, keep records and perform library searches.

Requirements: Associate's in a biological or physical science or equivalent. Minimum 1 year related lab experience. Interest and ability learning new techniques. Send cover letter and resume to Sam Weeks.

Technician, GR19 (T7009)
Food Science-Statutory
Minimum Biweekly Salary: \$566.28
Posting Date: 6/6/91

Perform a variety of sensory tests on foods and model systems using available panelists, including sample preparation and presentation. Analyze data using a statistical computer package and tabulate and graph results.

Requirements: Associate's (or equivalent) in food science, chemistry, or related field. Minimum 1 year related chemistry lab experience with lab courses in chemistry including organic. Excellent interpersonal skills required. Experience working with human experimental subjects is helpful. Send cover letter and resume to Sam Weeks.

Laboratory Coordinator, GR20 (T7205)
Physiology-Statutory
Minimum Biweekly Salary: \$590.45
Posting Date: 6/27/91

Coordinate introductory biology labs for 200 students. Set up and dismantle labs and demonstrations. Prepare materials, equipment and organisms. Maintain order in Study Center. Maintain inventories and equipment. Train and assist teaching assistants. Maintain accounting of course budget. Some weekend and evening hours.

Requirements: Bachelor's in biology, a related science or equivalent experience. 1 year practical experience running or working independently in a research or teaching lab desirable. Must have demonstrated ability to work in a highly organized and reliable way, in cooperation with others. NYS driver's license required. Send cover letter and resume to Sam Weeks.

Animal Health Technician, GR20 (T6801)
Veterinary Medical Teaching Hospital-Statutory
Minimum Biweekly Salary: \$590.45
Posting Date: 5/30/91

Provide support therapy for Intensive Care Unit patients and assist with emergency procedures. Teach intensive care and emergency protocol to students assigned to ICU duty. Operate and maintain life support systems including oxygen therapy, IV and subcutaneous fluid therapy, central venous pressure, electrocardiograms, etc. Observe and treat patients following clinicians' orders. Clean rooms and cages. Keep records. Maintain supplies. Some weekend and holidays required. Rotating shift 11 pm to 7 am, 3 pm to 11 pm.

Requirements: AAS in animal health technology, NYS licensure or eligible. Experience working with small animals preferred and an interest in teaching critical care techniques. Send cover letter and resume to Sam Weeks.

Technician, GR20 (T6608)
Soil, Crop & Atmospheric Sciences-Statutory
Minimum Biweekly Salary: \$590.45
Posting Date: 5/16/91

Assist in research on cryopreservation/vitrification of *Drosophila* embryos. Conduct studies and experiments on the procedures and assessment of post-thaw egg viability; conditions required for larvae development; identification of abnormal morphology; and genetic stability. Maintain colonies and population cages, collect eggs, and prepare media. Prepare eggs for cryopreservation including dechoriation and permeabilization.

Requirements: Bachelor's or equivalent in entomology. 1-2 years related experience including vitro culture of insects. Demonstrated initiative and decision making abilities. Send cover letter and resume to Sam Weeks.

Technician, GR21 (T7202)
Microbiology, Immunology and Parasitology-Statutory
Minimum Biweekly Salary: \$615.42
Posting Date: 6/27/91

Provide technical assistance for a parasitology research lab. Conduct experiments investigating the effectiveness of vaccines against schistosomiasis using an animal model. Administer vaccines and infections. Analyze cellular and humoral immune responses to vaccines using SDS-PAGE, immunoblotting, blastogenesis, and ELISA. Assess immune status of vaccinated animals by parasite recovery. Use recombinant DNA techniques to determine molecular structure of novel antigens. Analyze data. Maintain snail aquaria. Maintain lab, keep records, order supplies, and prepare reagents.

Requirements: Bachelor's in a biological field related to project or equivalent experience. 2 years experience in immunology or recombinant DNA techniques. Ability and willingness to learn new techniques. Send cover letter and resume to Sam Weeks.

Technician, GR21 (T7103)
Veterinary Pathology-Statutory
Minimum Biweekly Salary: \$615.42
Posting Date: 6/20/91

Prepare high quality microscope slides for both diagnostic and research purposes. Perform routine embedding, sectioning and staining of animal tissue. Perform large volume of special staining procedures on rotating basis. Assist in development of contemporary histopathology procedures within the laboratory.

Requirements: BS or equivalent with experience and coursework in histopathological techniques. HT (ASCP) certification or eligibility desired. 2-3 years experience as histology technician in a hospital or research laboratory desired. Experience in variety of special staining techniques and immunoperoxidase technique desired. Send cover letter and resume to Sam Weeks.

Technician, GR21 (T7104)
Division of Nutritional Sciences-Statutory
Minimum Biweekly Salary: \$615.42
Posting Date: 6/20/91

Assume complete and independent responsibility for the following: 1) Anesthetization and surgery, precise surgical implant manipulations, excision and postoperative care of rats. 2) Perform experiments with rats including behavioral observations and data collection. 3) Maintain a breeding colony. 4) Supervise and train undergrads conducting research. 5) Perform statistical analysis and maintain computerized databases. 6) Perform library research.

Requirements: BS or equivalent with background in biology or chemistry. Minimum of 2-3 years related experience. Computer experience required. Work in animal lab with supervisory experience highly desirable. Send cover letter and resume to Sam Weeks.

Technician, GR21 (T6804)
Animal Science-Statutory
Minimum Biweekly Salary: \$615.42
Posting Date: 5/30/91

Perform lab and animal experiments for an in vitro fertilization and cryobiology research program involving large and lab animals. Prepare various reagents, collect blood samples, operate sophisticated lab equipment and maintain lab supplies. Collect and analyze data, and prepare reports for publication.

Requirements: B.S. in Animal Science with advanced coursework in reproductive physiology and microbiology. 2-3 years lab experience in reproductive physiology. Ability to work with large and small animals. Send cover letter and resume to Sam Weeks.

Network Technician, GR22 (T6705)
CIT/Network Resources-Endowed
Minimum Biweekly Salary: \$641.92
Posting Date: 5/23/91

Provide the technical expertise necessary to diagnose data communications problems and to

support other technical and operational needs of the Network Management Center, its campus clients and Cornell's connections to external networks. Monitor the campus backbone network, associated LAN's and external regional and national connections. Diagnose network problems and repair them. Provide network technical assistance.

Requirements: Associate's or equivalent with 1-3 years related experience. An understanding of data communications networks and hardware highly desirable. Experience diagnosing problems in networking environment (especially TCP/IP) helpful. Strong interpersonal skills desirable. Send cover letter and resume to Sam Weeks.

Technician, GR22 (T6203)
Neurobiology and Behavior-Endowed
Minimum Biweekly Salary: \$641.92
Posting Date: 4/18/91

Participate in research using transmission and scanning electron microscopes for fine structure and autoradiography. Prepare cultures: tissue, cell and organ. Section tissue using ultramicrotomes. Prepare emulsions for coating sections.

Requirements: Bachelor's or equivalent experience in biological science (neurobiology or biochemistry). 2-4 years related experience using electron microscopes (TEM and SEM), microtomes, and sterile techniques for cell culture. Send cover letter and resume to Sam Weeks.

Research Equipment Technician, GR24 (T7208)
Plant Pathology-Statutory
Minimum Biweekly Salary: \$701.22
Posting Date: 6/27/91

Operate several environmental growth chambers. Perform routine service and maintenance procedures on the chambers and their electrical and mechanical systems. Diagnose and repair operational problems. Improve and update existing systems. Install, repair, modify or build temperatures and relative humidity control systems. Program chambers to users requirements.

Requirements: Associate's degree in electronics or equivalent. Minimum of 3 years related experience. Knowledge of electricity, refrigeration and air conditioning. Must understand the solid state and microprocessor controls used in temperature control systems. Send cover letter and resume to Sam Weeks.

Accelerator Technician, GR24 (T6110)
Lab of Nuclear Studies-Endowed
Minimum Biweekly Salary: \$701.22
Posting Date: 4/11/91

Perform highly skilled work to maintain and improve the various components of accelerator ultra high vacuum systems consisting of a linear accelerator, an electron synchrotron, and storage ring. Use techniques appropriate to various vacuum systems, particularly those for ultra high vacuum systems. Work with physicists to design, construct, and install new devices. Provide maintenance, handle malfunctions, and take corrective actions. Provide detailed documentation for the accelerator's master drawings and operating manuals.

Requirements: High School diploma or equivalent plus at least 2 years formal training in ultra high vacuum technology. Work experience on such equipment with the demonstrated ability to assume responsibility for its maintenance. Ability to supervise other technicians. Send cover letter and resume to Sam Weeks.

Technical Part-Time

Technician, GR21 (T7108)
Floriculture and Ornamental Horticulture-Statutory
Minimum full-time equivalent: \$615.42
Posting Date: 6/20/91

Serve as assistant in the Turfgrass Water Quality Program doing basic and applied research on the fate of fertilizers and pesticides applied to golf turf. Assist in the design, organize and carry out experiments. Collect and statistically analyze data. Establish, maintain and treat test plots. Analyze plant, soil and seachate samples. Maintain supply inventory.

Requirements: Bachelors in turfgrass science, desired, agricultural science acceptable. At least 1-3 years experience in turfgrass management and the associated specialized equipment. Computer and statistical analysis competency. Familiarity with isotopic nitrogen analysis by mass spectrometry. Ability to operate basic lab and field equipment. NYS driver's license and pesticide application certificate required. Send cover letter and resume to Sam Weeks.

Technical Temporary

Technician, (T7110)
Entomology/Schwardt Lab-Statutory
Hiring Rate: \$6.25
Posting Date: 6/20/91

Assist in the study of Lime disease. Collect ticks, work with colonies of ticks and rodents. Perform

lab studies.

Requirements: Some lab work, data collection, record keeping and experience with research animals. Must be able to work independently. Keep good records. Must have own car and valid NYS driver's license. Send cover letter and resume to Sam Weeks.

Technician (T7111)
Entomology/Schwardt Lab-Statutory
Hiring Rate: \$5/95
Posting Date: 6/20/91

Assist in the study of Lime disease. Feed and care for animals, mice, gerbils and rabbits. Maintain animal colonies including ticks. Good record keeping. Position through summer, perhaps longer. 10 hours per week. Schedule flexible. **Requirements:** Some entomological coursework, training and experience very helpful. Some lab work, record keeping and experience with research animals. Must have own car and valid NYS driver's license. Send cover letter and resume to Sam Weeks.

Office Professionals

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

All external candidates must have a completed signed employment application on file with Staffing before they can be interviewed for a position. Employee candidates should submit an employee transfer application and cover letter, if requested, for each position in which they are interested.

Submit a signed employment application and resume which will remain active for a period of four months. During this time, you will be considered for any appropriate openings for which you are competitively qualified. Requests for referral and/or cover letters are not accepted from external candidates unless specified in the ad. Qualified applicants will be invited for a preliminary interview at our East Hill Plaza office. If you are currently available for employment, you may want to consider temporary opportunities at the University. Please contact Karen Raponi at 255-2192 for details.

Cashier, GR15 (C7204, C7206) 2 positions
Campus Store-Endowed
Minimum Biweekly Salary: \$499.20
Posting Date: 6/27/91
Performs customer service and cashier functions in a fast paced environment. Responsible for accurately handling varied financial transactions. Stocks shelves and organizes merchandise, as needed.

Requirements: High School diploma, 6 months to 1 year related experience. Previous retail experience desirable. Ability to work accurately with numbers/money essential. Good interpersonal and communication skills. **Regular Cornell employees send employee transfer application to Esther Smith, Staffing Services, East Hill Plaza.**

Cashier, GR15 (C6705)
Unions and Activities/RPU-Endowed
Minimum Biweekly Salary: \$499.20
Posting Date: 5/23/91
Operation of cash register; product inventory and ordering; customer service; prepare day-end deposits; assist with setting up and cleaning service area. Wed.-Sun.; 3:00p.m.-11:00p.m. (Academic). Mon.-Fri.; 4:00p.m.-10:00p.m. (Summer). 10 month position.

Requirements: High School diploma or equivalent. Experience with cash handling in a fast paced, high pressure environment. Possess a genuine enthusiasm and positive attitude towards the job and maintain a "customer first" attitude at all times. **Regular Cornell employees send employee transfer application to Esther Smith, Staffing Services, East Hill Plaza.** External applicants send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Collections Assistant, GR18 (C7213)
Maps, Micro, News/CUL-Endowed
Minimum Biweekly Salary: \$542.89
Posting Date: 6/27/91

Under direction of supervisor, responsible for acquisition of newspapers and serials in microform format. Act as liaison with selectors, serials acquisitions and accounting departments for ordering and maintaining subscriptions of newspapers and serials in microform; authorize payment of invoices, monitor price changes, claim missing items, maintain Kardex; perform office support tasks and provide information service to public. **Requirements:** College experience required. Associate's preferred. Experience with microcomputers and word processing. Ability to work with foreign languages. Aptitude for detailed work. Excellent organizational, interpersonal and communication skills. Medium typing. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Secretary, GR18 (C7203)
Minority Educational Affairs-Endowed
Minimum Biweekly Salary: \$542.89
Posting Date: 6/27/91

In a heavy student contact environment, provides secretarial/receptionist support to the Associate Directors (2) of the Office of Minority Educational Affairs/COSEP. Assist and interacts with minority and non-minority students, providing them with information and direction regarding campus-wide support services.

Requirements: High School diploma or equivalent. Some college coursework preferred. 1-2 years related experience. Experience with Macintosh PC's essential. Heavy typing. **Regular Cornell employees send transfer applicant, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.** External applicants send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza. Minority applicants are particularly encouraged to apply.

Trade Book Clerk, GR18 (C7205)
Campus Store-Endowed
Minimum Biweekly Salary: \$542.89
Posting Date: 6/27/91

Receives trade, text and reference books and materials; inputs all information using computer system; makes decisions regarding mark-up percentage as needed; handles minute details and large amounts of paperwork, responsible for accurately invoicing all above and authorizes payment.

Requirements: High School diploma or equivalent. Associate's in liberal arts, literature or equivalent preferred. Excellent verbal skills. An aptitude for books and literature. Good analytical skills. Previous receiving experience desirable but not required. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.**

Editorial Assistant, GR18 (C7013)
C.U. Press-Endowed
Minimum Biweekly Salary: \$542.89
Posting Date: 6/13/91

Work closely with the editor responsible for acquiring scholarly and trade books in the life sciences. General secretarial support; extensive liaison with authors, reviewers, and other departments of the Press.

Requirements: Associate's or equivalent. Self-motivated with an eye for detail, and a good command of the English language. Excellent communication and organization skills. 1-2 years prior experience in publishing helpful. Familiarity with PCs, and in particular a working knowledge of Microsoft Word, and Lotus is desirable. Medium typing. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.** External applicants send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Secretary, GR18 (C7103)
University Development-Endowed
Minimum Biweekly Salary: \$542.89
Posting Date: 6/20/91

Provide a range of secretarial and office support to the Assistant Director of Student Aid Development & Stewardship. Type, proofread, file, organize, mail and receptionist duties. Special emphasis is placed on preparing, processing, and proofreading annual scholarship reports. Research, collect, and record data to maintain Macintosh database. Arrange donor/recipient and staff/student meetings and appointments.

Requirements: High school diploma or equivalent. 1-2 years related experience. Excellent organizational and interpersonal skills; service orientation; excellent proofreading abilities; experience with IBM or Macintosh word processing systems preferable. Medium typing. **Cornell employees send employee transfer application to Esther Smith, Staffing Services, EHP.**

Accounts Assistant, GR19 (C7209)
Human Development Family Studies-Statutory
Minimum Biweekly Salary: \$566.28
Posting Date: 6/27/91

Assist department Administrative Manager and Administrative Supervisor in the management of fiscal transactions and maintenance of financial records in a large department. Provide backup for secretary/receptionist in the Chair's office.

Requirements: High School diploma or equivalent. Some college coursework or Associate's in accounting. 1-2 years related experience. Knowledge of University accounting/business Systems required. Computer competency including knowledge of LOTUS 123 and Word Perfect software desirable. Strong interpersonal and organizational skills a must. Medium typing. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.**

Secretary, GR19 (C5110)
JGSM-Endowed
Minimum Biweekly Salary: \$566.28
Posting Date: 1/31/91

Provide secretarial and administrative support to

the Director of Business Operations and the School's Business Manager.

Requirements: High School diploma or equivalent. Some college coursework preferred. 1-2 years related office experience. Working knowledge of Macintosh computer. Excellent organizational, interpersonal and communication (written and oral) skills. Heavy typing. **Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.**

Administrative Aide, GR20 (C7202)
Vice President for Academic Programs and Campus Affairs-Endowed
Minimum Biweekly Salary: \$590.45
Posting Date: 6/27/91

Act as principal receptionist to the office of academic programs and campus affairs.

Requirements: Associate's or equivalent. 2-3 years work experience in a diverse office setting. Ability to handle sensitive and confidential information required. Excellent interpersonal, communication, telephone, and verbal skills. Ability to work independently, often under pressure and short deadlines. Word processing experience necessary. Knowledge of academic environments and CU administrative structure and support systems helpful. Medium typing. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.**

Accounts Assistant, GR20 (C7101)
Administrative Services/F&BO-Endowed
Minimum Biweekly Salary: \$590.45
Posting Date: 6/20/91

Provide administrative and accounting support for Facilities and Business Operations Departments. (Directors, Business Managers, Superintendents, Plant/Account/Section Managers, and support staff.)

Requirements: High school diploma or equivalent. Associate's degree in Accounting preferred. Experience using calculator, typewriter, and Personal Macintosh computers necessary. Accurate typing and excellent interpersonal, oral, and written communications skills. Cornell University accounting experience desirable. Light typing. **Cornell employees send transfer application to Esther Smith, Staffing Services, EHP.**

Accounts Assistant, GR20 (C7102)
Graduate School-Fellowships & Financial Aid-Endowed
Minimum Biweekly Salary: \$590.45
Posting Date: 6/20/91

Performs majority of recordkeeping functions for a busy office. Research & resolve student account problems. Liaison for Graduate Student Conference & Research Travel requests. Process award recommendation forms. Assist Director with accounts on Excel. Act as back-up receptionist, handle routine questions, correspondence and telephone inquiries.

Requirements: High school diploma or equivalent. Some college coursework preferred. 2-3 years related experience. Proficiency on the Mac using Excel and Microsoft Word required. Strong interpersonal and communication skills required. Understanding of student finance system and Cornell accounting helpful, ability to work under pressure and attention to detail expected. Excellent organization skills required. **Cornell employees send employee transfer application to Esther Smith, Staffing Services, EHP.**

Copy Cataloger, GR20 (C7104)
Catalog Department-Endowed
Minimum Biweekly Salary: \$590.45
Posting Date: 6/20/91

Catalog monographs with Library of Congress or other acceptable copy, including authority work. Other duties include shelf listings, added volumes, data base management activities and other cataloging tasks as assigned.

Requirements: Associates degree or equivalent experience preferred. At least one year of previous work experience in libraries, prefer technical services experience. Must be dependable and have the aptitude for detailed work. Strong interpersonal skills. At least one foreign language, Hebrew strongly preferred. Light typing. **Cornell employees send employee transfer application to Esther Smith, Staffing Services, East Hill Plaza.**

Accounts Coordinator, GR20 (C6623)
Center for Environmental Research-Endowed
Minimum Biweekly Salary: \$590.45
Posting Date: 5/16/91

Conduct all financial transactions for multidisciplinary research center. Maintain records on all levels of account activity, reconcile department records with University records; generate monthly reports and special reports; assist with development of computerized accounting, equipment, and personnel databases.

Requirements: Associate's or equivalent experience in field of accounting. 2-3 years related experience. Knowledge of Cornell accounting procedures or general knowledge of fund accounting necessary. Experience with Macintosh database and spreadsheet software preferred. **Regular Cornell employees send employee**

transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza. External applicants send cover letter, resume to Esther Smith, Staffing Services, EHP.

Reference Assistant, GR20 (C6210)
Mann Library-Statutory
Minimum Biweekly Salary: \$575.30
Posting Date: 4/18/91

Provide information service in Mann Library and coordinate the maintenance of the collection of reference materials. Responsible, in the Entomology Library, for student hiring and supervision, and user assistance. Provide circulation assistance and assist with collection.

Requirements: Associate's or equivalent. Additional college coursework in agriculture or life sciences preferred. Strong interpersonal and communication skills. Supervisory and effective public service experience required. Experience working in an academic library and with use of microcomputers preferred. Send cover and letter and resume to Esther Smith, Staffing Services, EHP.

Administrative Aide, GR21 (C7208)
Division of Nutritional Sciences/CFNPP-Statutory
Minimum Biweekly Salary: \$615.42
Posting Date: 6/27/91

Provide administrative and secretarial assistance to the Director of the Cornell Food and Nutrition Policy Program. Draft administrative correspondence, coordinate domestic and international travel; special projects as assigned; general secretarial duties.

Requirements: Associate's or equivalent. 2-3 years previous office experience. Fluency in a foreign language preferred. Proven ability to work independently, take initiative, handle multi-assignments simultaneously. Experience with microcomputers and software. Excellent grammatical skills. Familiarity with international work preferred. Heavy typing. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.** External applicants send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Administrative Aide, GR21 (C7106)
International Agriculture & CIIFAD-Statutory
Minimum Biweekly Salary: 615.42
Posting Date: 6/20/91

Serve as Executive Secretary to Associate Director of International Agriculture and CIIFAD. Manage various databases.

Requirements: 2-3 years related experience. Minimum of 3 years working overseas- foreign language capability highly desired, must have working knowledge of wordperfect, foxpro and Harvard graphics. **Cornell employees send employee transfer application to Esther Smith, Staffing Services, East Hill Plaza.**

Administrative Aide, GR21 (C6618)
Astronomy-Endowed
Minimum Biweekly Salary: \$615.42
Posting Date: 5/16/91

Act as assistant to the Chairman in his capacity as director of a special educational program sponsored by the Pew foundation. Prepare and process confidential materials. Maintain schedules of due dated, prepare and oversee reports due. Oversee accounts duties. Make travel arrangements. Some travel involved.

Requirements: Associate's or equivalent required. 2-3 years administrative secretarial experience beyond formal training. Word processing and writing skills very important. Excellent organizational and interpersonal skills. Ability to work under pressure. Prior experience at Cornell preferable but not required. Medium typing. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.**

Administrative Aide, GR21 (C5704)
CRSR-Endowed
Minimum Biweekly Salary: \$615.42
Posting Date: 3/14/91

This position is for an experienced secretary who is able to give administrative support to a sizeable research group consisting of several professors, research associates and graduate students. Duties include scientific typing, correspondence, E-mail, travel arrangements, travel reimbursement, general office duties.

Requirements: Associate's or equivalent required. 2-3 years of secretarial experience, preferable Cornell background. Solid word processing skills (IBM preferred, if possible, knowledge of Sun Microsystem word processing program). Scientific typing. Medium typing. **Regular Cornell employees only. Send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.**

Administrative Aide, GR22 (C3501)
Human Service Studies-Statutory
Minimum Biweekly Salary: \$625.24
Posting Date: 6/13/91

Provide administrative staff assistance to the overall management of the department; including coordination of appointments, supervision of clerical staff (6); fiscal management; office manage-

ment; and coordination of department information, space and special programs.

Requirements: Associate's or equivalent. 3-4 years related experience. Prior experience required in personnel, supervision, fiscal management and office management. Knowledge of IBM computers and systems management desirable (wordperfect, Lotus 123, Dbase). Knowledge of budgeting and Cornell accounting system a plus. Strong interpersonal skills. Medium typing. **Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.**

Office Professionals Part-Time

Library Aide, GR18 (C7212)
Albert R. Mann Library-Statutory
Minimum full-time equivalent: \$542.89
Posting Date: 6/27/91

Provide information and reference services at the reference desk, in person, and over the telephone, using online and card catalogs, RLIN database, reference books and other library resources. Make computer search appointments and takes messages for public services librarians. Assist with projects and maintenance of reference collection. 20 hours per week, schedule to be arranged.

Requirements: High School diploma or equivalent. Associate's degree or equivalent education preferred. Candidates with 3 or more years college coursework will be given preference. Experience working in an academic/research library is desirable. Background in life sciences, agriculture, or human ecology preferred. Strong interpersonal and communication skills required. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Senior Information Assistant, GR20 (C7009)
Reference Department/Olin Library-Endowed
Minimum full-time equivalent: \$590.45
Posting Date: 6/13/91

Staff a busy information desk in Cornell's central research library. Provide information and reference services; assist library patrons by providing information the libraries organization and services; perform complex bibliographic searches, answer government document questions, and locate factual information; refer users to appropriate resources or other staff for answers to subject queries. 20 hours per week, including evenings and weekends.

Requirements: Associate's in social sciences or humanities or equivalent. 2 years related experience. Excellent interpersonal and communication skills and the ability to work calmly under pressure required. Experience in a research library, knowledge of bibliographic resources and teaching skills desirable. Knowledge of at least one foreign language. Send cover letter and resume to Esther Smith, Staffing Services, EHP.

Administrative Aide, GR21 (C7211)
Veterinary Administration-Statutory
Minimum full-time equivalent: \$615.42
Posting Date: 6/27/27

Provide administrative support to the Director/College Registrar. Includes full range of general secretarial duties, assistance with processing various forms, and extensive entry and verification of data. Days and hours Monday-Friday, 10:00-2:00B.

Requirements: Associate's required. 2-3 years prior experience in a student services office preferred. Accuracy and attention to detail and excellent interpersonal skills are essential. Familiarity with advanced Word Perfect applications and proficiency in use of University mainframe and LOTUS 123 required. Medium typing. **Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.** External Applicants send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Office Professionals Temporary

Preservation Assistant, GR18 (C7201)
Preservation and Conservation-Endowed
Minimum Biweekly Salary: \$542.89
Posting Date: 6/27/91

Responsible for set-up and scanning of volumes according to project specifications using Xerox prototype equipment; performing visual inspection via monitor and printouts; rescanning documents and inserting corrected digital images; transferring digitized information to more permanent medium; sending images to printer and optical juke box. Monday-Friday, 39 hours per week. Position until 12/31/91.

Requirements: High School diploma or equivalent. Some college coursework preferred. 1-2 years related experience. Excellent organizational and work-flow management skills; familiarity with Windows software; attention to detail; ability to work independently; previous printing or photocopy experience. Send cover letter and resume to Karen Raponi, Staffing Services, East Hill Plaza.

Office Professionals Temporary

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

Secretary (S7002)

Soviet and East European Studies Program-Endowed

Posting Date: 6/20/91

Set up program meetings and notify members. Attend Program and Steering Committee meetings and prepare minutes. Prepare seminar notices and mailings. Collect data, edit, organize & mail SEESP newsletter. Collect and organize data, type and edit annual proposal for Title VI Fellowships. Organize conference arrangements; travel, accommodations, meeting rooms, and meals. Make arrangements for Program visitors such as lecture room reservations, travel reimbursements, honoraria checks, and receptions. Serve as primary contact person for information and referral for department.

Requirements: High school diploma or equivalent. Previous office experience is a must. Experience with WordPerfect and Q&A. Sept. 1- May 31, 20 hrs pr week. Send cover letter and resume to Karen Raponi, Staffing Services, EHP.

Office Assistant (S7005)

Lab of Ornithology-Endowed

Hiring Rate: \$6.50

Posting Date: 6/13/91

Under the supervision of the Extension Associate III operate the lab home study course in bird biology, (a college level correspondence course in Ornithology). Duties include: responding to inquiries; enrolling students; grading questions; supervising each students progression thru the course.

Requirements: High School diploma or equivalent, coursework in biology is helpful. Experience with Macintosh computers required. Beginning immediately for 6 months. Send cover letter and resume to Keren Raponi, Staffing Services, East Hill Plaza.

Distribution Assistant (S6601)

Agricultural and Biological Engineering-Statutory

Hiring Rate: \$7.00

Posting Date: 5/16/91

Assist in distribution of publications. Enter orders in computer, print invoices, pack boxes and prepare for mailing. Assist in marketing and other office duties. Answer phone. Monday-Friday, 8:00a.m-12:00 noon. This is a 6 month appointment.

Requirements: Familiarity with MacIntosh computer. Able to lift 40 pound boxes. Send application materials to Karen Raponi, Staffing Services, 160 Day Hall.

Service Clerk (S6503)

Lab of Ornithology-Endowed

Posting Date: 5/9/91

Assist with sales at the Crow's Nest Birding Shop on weekends, Monday nights for seminars, and possible hours during the week to cover for vacations. Cashiering, answer phones, data entry, and able to lift 50 pounds. Work with customers service skills and flexibility. Must be dependable.

Requirements: High School diploma or equivalent. Cash register and data experience helpful. Please send cover letter and completed application to Karen Raponi, Staffing Services, 160 Day Hall.

General Service

Submit a signed employment application which will remain active for a period of four months. during this time, you will be considered for any appropriate openings for which you are competitively qualified. Requests for referral and/or cover letters are not accepted from external candidates

unless specified in the ad. Qualified applicants will be invited for a preliminary interview at our East Hill Plaza office. If you are currently available for employment, you may want to consider temporary opportunities at the University. Please contact Karen Raponi at 255-2192 for details.

Vehicle Mechanic, S009 (G7201)

Fruit and Vegetable Science-Statutory

Hiring Rate: \$9.17

Posting Date: 6/27/91

Responsible for all aspects of equipment maintenance and repair for Cornell Orchards. Help to evaluate fruit and crop and determine logistical aspects of fruit harvest, work with researchers and fellow orchard workers to grow, harvest and store fruits. Supervise temporary workers as needed. Operate farm equipment on a daily basis. Hours may fluctuate during harvest and spray season. Days and hours regularly Monday-Friday, 7:00-3:30, overtime as needed.

Requirements: High School diploma or equivalent. Have or obtain NYS Pesticide Applicators license, commercial truck operators license preferred. Mechanical training preferred. Lift up to 100 pounds. Minimum 6 years experience as farm and/or auto equipment mechanic. 5 years experience as farm equipment operator. Fork lift experience helpful. Excellent interpersonal and public relations skills necessary. Regular Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Custodian, S002 (G5002)

Unions and Activities/Noyes Center-Endowed

Posting Date: 1/24/91

Perform custodial care of assigned areas to include mopping, dusting and vacuuming. Must be able to follow instructions and work effectively for extended periods without supervision.

Requirements: High School education or equivalent. Must be able to read and write. Some experience in custodial work with commercial cleaning equipment. Must be able to lift 50 pounds, climb an 8 foot ladder and be in good physical condition.

General Service

Send applicant materials for the following positions to Cynthia Smithbower, 160 Day Hall.

Greenhouse Worker, S006 (B7201)

Floriculture and Ornamental Horticulture-Statutory

Hiring Rate: \$7.91

Posting Date: 6/27/91

Perform experimental work for faculty, staff, and graduate students; carry out necessary greenhouse operations to maintain plant growth and research experiments.

Requirements: Associate's in Floriculture or related area, or substantial experience in greenhouses. Must obtain NYS Certified Applicators License. Send cover letter and resume to Cynthia Smithbower.

Academic

Senior Research Associate I

Cornell Food and Nutrition Policy Program


1-2 year position located in Washinton D.C.

Serve as Principal Invesigator of a research effort pertaining to food and nutrition policy in developing countries. Develop proposals and methodologies for research, conduct research, coordinate related activities, and publish results.

Requirements: Ph.D. in economics, agricultural economics or related field, nutrition, with aminimum of 4 years related experience required. Strong analytical skills and abilities; extensive experience in analysis of poverty, food and agricultural issues of developing countries, and experience woking with interdisciplinary teams is desirable. Evidence of grantsmanship and scientific literature. Knowledge of a second language required, french or spanish helpful. Applications appreciated by July 31, 1991. Interested individuals should apply to: Deputy director, Cornell Food and Nutrition Policy Program, 1400 16Th Street, NW, Suite 420, Washington, D.C. 20036.

RideShare Program to Begin July 1, 1991

The RideShare program encourages Cornell employees with similar daily commutes to travel to the Cornell campus together. You will want to refer to the booklet, "A Commuter's Guide to Cornell," which you received from the Office of Transportation Services last week, for information on the advantages of using the RideShare program and instructions for enrolling in the program. Those who are seeking riders or a ride may become part of a commuter listing in "The Commuter Connection" under "transport" on CUINFO by contacting Transportation Services. In order to help promote this program, prospective RideShare members will also be listed, as space allows, in *Cornell Employment News* on June 27, July 3 and 18, and August 1, 15, and 29.



Commuter Connection

CORNELL UNIVERSITY OFFICE OF TRANSPORTATION SERVICES • 255-4600

The RideShare program starts July 1, but you can join at any time. As soon as you find someone to ride with, call the Traffic Bureau and the forms will be mailed to you. If you have any questions about how to use "The Commuter Connection," feel free to call Transportation Services, 255-4600.

Place	Name	Phone	Option	Days	Hours	Smoke	Comments
Auburn	Tina	5-6251	Share	M-F	8:00-4:30	No	
Aurora	Jean	5-3136	Share	M-F	8:00-4:30	No	U. Springs
Bennettsburg	John	5-9386	Share	M-F	8:00-5:00		Route 79W
Brooktondale	Deborah	5-2115	Drive	M-F	9:00-4:00		
Burdett	Michele	5-8411	Share	M-F	8:00-4:30		
Burdett	Lisa	4-2588	Share	M-F	9:30-6:00		
Candor	Ruth	5-5174	Share	M-F	6:00-2:30		
Cayuta	Mary	5-2029	Share	M-F	7:30-4:30		Alpine Jct.
Cortland	Donna	5-3245	Share	M-F	8:00-4:30	No	8-4 Fri
Cortland	Debra	5-8595	Share	M-F	8:15-4:30	No	
Dryden	Suzanne	5-8127	Share	M-F	8:00-5:00		Ellis Hollow
Etna	Felicity	5-4004	Share	M-F	8:00-4:30	No	Rtes 13/366
Freeville	Paula	5-7555	Share	M-F	8:00-4:30		
Interlaken	Marca	5-7148	Share	Th,F	8:00-4:00	No	
Ithaca	Adria	5-7471	Share	M-F	8:30-5:00	No	Downtown
Ithaca	Doris	5-8198	Share	M-F	10:00-9:00		Prkwood Vlg
Ithaca	John	5-4165	Share	M-F	Flexible	No	East Hill
Ithaca	Jane	5-2291	Share	M-F	8:00-5:00		
Ithaca	Lois	3-3323	Drive	M-F	8:00-5:00		Snyder Hill Rd
Jacksonville	Timis	5-5174	Share	M-F	6:00-2:30	No	
Lansing	Susan	5-4139	Share	M-F	8:30-5:00	No	
Lansing	Betsy	4-1210	Share	M-F	8:00-5:00		
Lansing	Bill	5-9134	Drive	M-F	9:00-6:00	No	Meyers Point
Marathon	Judi	5-3745	Share	M-F	8:00-4:30	OK	
McLean	Deena	5-6506	Drive	M-F	8:00-3:30	No	
Moravia	Debbie	5-4267	Share	M-F	Flexible	No	
Moravia	Jim	5-3272	Share	M-F	6:30-3:00		via Rt 34 or 38
Newark Vall.	Amy	5-2215	Share	M-F	8:00-5:00	No	8-4 Fri
Newfield	Linda	5-1866	Share	M-F	8:00-4:30		
Newfield	Pat	5-2889	Share	M-F	Flexible	No	Route 96
Odessa	Susan	5-5338	Drive	Su-Th	10:00-8:00	No	
Owego	RaeAnn	5-6224	Share	M-F	8:00-4:30	No	
Owego	Carol	5-2306	Ride	M-F	5:00-1:30	OK	
Varna	Annabelle	5-3818	Share	M-F	8:30-5:00		
Varna	Betty Ann	4-1234	Share	M-F	8:00-5:00		Trailer Park
Virgil	Suzanne	3-3946	Share	M-F	8:00-5:00		
Watkins Glen	Barb	5-1790	Share	M-F	8:00-4:30	No	8-4 Fri
Waverly	Robin	3-3011	Share	M-F	8:30-5:30	No	
Willseyville	Ramona	5-2262	Share	M-F	8:00-4:30	No	
Willseyville	Sharon	5-9731	Drive	M-F	8:00-4:30		

Cornell Employment News

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

Cornell University is committed to assisting those persons with disabilities who have special needs. A brochure describing services for persons with disabilities may be obtained by writing to the Office of Equal Opportunity, Cornell University, 234 Day Hall, Ithaca, NY 14853-2801. Other questions or requests for special assistance may also be directed to that office.