

CORNELL Chronicle

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Greek tragedy: Staging a play in ancient language

By Martin B. Stiles

Talk about challenges.

How would you like to direct a group of amateur actors in the performance of a play in a language most of them have never spoken before, and in front of an audience that — except for a few exceptions — doesn't know the language, either?

But that's just the task Catherine E. Martin, a graduate student in the Department of Classics, has willingly taken on this term. You can see the results of her efforts in two free performances — in ancient Greek — of Euripides' tragedy *Orestes* Friday and Saturday nights, April 10 and 11, at 8 p.m. in Kaufmann Auditorium of Goldwin Smith Hall.

The hour-long performance will be accompanied by a program offering a detailed summary of what is happening on stage.

This is not the first time Martin has taken on such a monumental task. In fact, this is what she intends to do the rest of her life: stage live performances of plays in dead languages (Latin and Greek).

The desire came, she says, as a "conversion experience" while a member of the Greek chorus in a 1988 production of Aristophanes' *Clouds*, performed as an undergraduate at Columbia University.

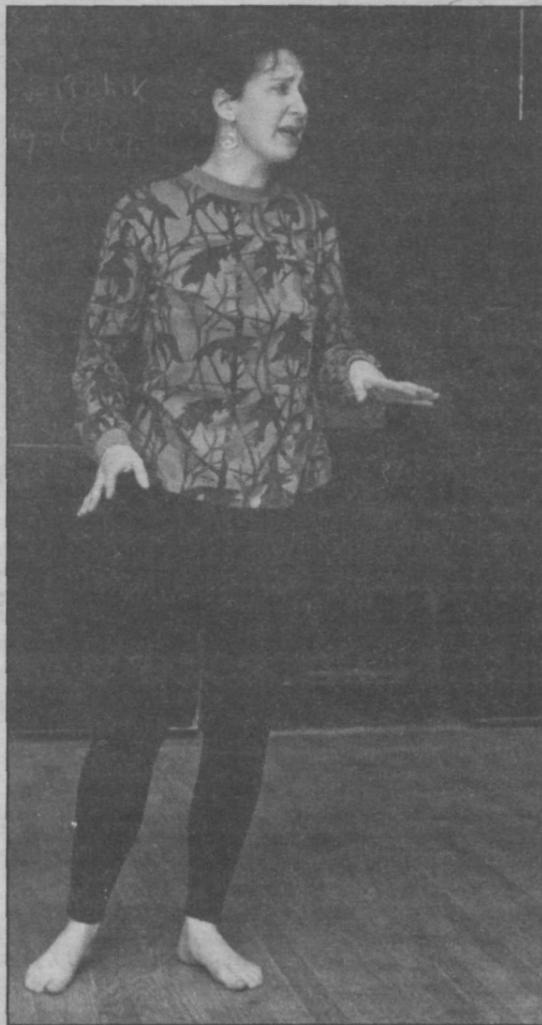
The Cooperstown, N.Y., native graduated in 1990 from Columbia College, where the production of plays in the classic languages has a long tradition. In 1989 she directed and acted in her own production of an ancient play, *Rudens* by Plautus, the third century B.C. Roman comic dramatist.

Now with the help of a grant from the Classic Department's Townsend Fund — which annually supports public readings of the classics — and the cooperation of 11 undergraduate and graduate students and two Cornell staff members, Martin is directing *Orestes* and playing the role of Electra.

Her \$1,305 production budget includes costumes, props, scenery, videotaping, programs and advertising, and includes a reception to, in Martin's words, "reward those members of the audience stalwart enough to sit still through an hour of ancient Greek and still have the strength to lift the role at the end."

The performance will not include the Greek tradition of masks, because "we need the expressions on the actors faces to convey much of the meaning," she explained. Theatrical lighting will also be extremely important to "create the illusionistic space necessary for an effective performance," she said.

The greatest single benefit for the performers comes, she says, from "memorizing the lines and assimilating the meaning and nuances of the words through the context



Peter Morenus/University Photography

Catherine E. Martin, a graduate student in the Department of Classics, rehearses her role as Electra in Euripides' *Orestes*, which she is directing in the ancient Greek.

of the action of the play. One of the greatest challenges, she added, "is teaching the lines and their meaning to the actors."

Despite the constant problem of getting everyone together for rehearsals, Martin is already thinking about directing a play next year, another one by Plautus. The work, *Casina*, centers around, she says, "the nasty and vicious dialogue between a married couple," the sense of which undoubtedly will be projected as much by tone of voice as by word meaning.

"I just love Plautus," Martin said. "He probably will be the subject of my doctoral thesis."

"But that is a long way off," she added, not wistfully, but in a way that meant she is more excited about what she is doing now.

Columbus

5

What would the history of the Americas be today if the people who already were here greeted Christopher Columbus with whirring video cameras?

State budget

10

The 1992-93 state budget that was passed last week included a base-budget cut of about \$5.2 million for the statutory units

Pentagon official warns of dangers to world stability

By Albert E. Kaff

Paul D. Wolfowitz, who went from Cornell's campus to the Pentagon's senior policy post, warned in a Tuesday speech that world peace still faces shocks in the post-Cold War era.

But the U.S. undersecretary of defense for policy told a Cornell audience that Western Europe, the United States and Japan "have developed a zone of peace where war is unthinkable, and given the history of the 20th century that is no mean accomplishment."

Wolfowitz, 48, who received a bachelor's degree in mathematics and chemistry at Cornell in 1965, spoke at the annual James H. Becker Alumni Lecture, attended by about 50 people, most of them faculty and one an ROTC cadet in uniform.

'Our withdrawal from the world would create risks we could not ignore.'

Commenting on a published report in *The New York Times*, the Pentagon official said that the United States must maintain its leadership in collective security, but added, "Reports that we are advocating a go-it-alone philosophy were wrong" and that the notion that "the United States must be the strongest of all other countries combined is nonsense."

Instead, the United States should lead a collective security alliance. "Our withdrawal from the world would create risks we could not ignore," he said.

Despite the new zone of peace, "There will be shocks to our security arrangements, as was Iraq's invasion of Kuwait," he said, adding: "Our ability to predict crisis is very limited. Five years ago, everyone would have scoffed at what has unfolded. Ten years ago, we would have scoffed that Iraq could be a threat."

Wolfowitz reached back to 1920, when Warren G. Harding campaigned for the presidency just after World War I on the slogan "Return to normalcy." But the undersecretary said America cannot return to complacency. He recalled "the weak response of the League of Nations when Japan invaded Manchuria" in the 1930s and U.S. efforts to remain neutral early in World War II.

"It was easy to underestimate the threat when Iraq invaded Kuwait," he said. But Saddam Hussein was poised to impose his will on Saudi Arabia and other Gulf states, "and with what we know now about his nuclear capability, the ultimate result could have been nuclear war."

He said that NATO, with the exception of France, favors continuing the NATO alliance, "and I think that the French people might support it more than the French government."

But he said that the Defense Department now is reducing

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Public Safety seminar teaches local police about realities of rape

By Lisa Bennett

When a woman reports that she was raped, police officers often suspect she is lying. Juries frequently look for proof of physical harm or signs of severe emotional distress. Even friends and family are often quick to ask, "What did she do wrong?"

Reactions like these reveal myths about rape that are commonly held by professionals and lay people alike, according to Harry O'Reilly, the founder of the New York City Police Department's Sex Crimes Analysis Unit. O'Reilly came to campus last week to give a three-day seminar on the topic to area police and other professionals.

The facts about rape that must be understood, particularly by law enforcement officers, he said, are these: 90 percent of all reported rapes actually occurred; most physical harm suffered by rape victims cannot be seen because it is internal or appears on unexposed areas of the body; and half of all rape survivors purposely feign control to hide their emotional pain.

More than 70 law enforcement officers, assistant district attorneys, nurses, mental health counselors and rape crisis workers from Tompkins County and eight other counties attended O'Reilly's seminar, "Sex Crimes Investigation,"

during which he also discussed the rapist's strategy, methods of investigating rapes and ways for women to avoid being raped.

The Department of Public Safety and Gannett Health Center sponsored the visit by O'Reilly, a 20-year police veteran who is now an assistant professor of criminal justice at John Jay College and lectures about rape to police nationwide.

The goal in holding the seminar at Cornell was to improve the handling of rape cases in Ithaca and surrounding areas and to encourage more rape survivors to report the crime, according to Capt. William Boice of Public Safety.

"We certainly would like to see an increase in the number of reported rapes," said Boice. He added that it probably holds true at Cornell, as it does nationally, that there are 10 unreported rapes for every one that is reported.

Last year, five rapes were reported to Public Safety. This year, one has been reported to-date. But no one believes these numbers are all-inclusive.

One reason that few rape survivors report the crime, according to O'Reilly, is the lack of understanding of rape among law enforcement officials.

"We cops are real good at being compassionate with people whose wounds we can see. But with a rape victim,

none of these things are visible," he said.

For example, the two most common effects O'Reilly has observed being reported in some 20,000 rape cases is the survivor's belief that she was going to die during the rape and severe burning during urination afterward.

Those complaints, he added, convinced him of the erroneousness of another myth about rape: that a woman could actually lie back and enjoy it.

"Rape is not sex. Rape is an assaultive crime with a sexual mode. It is assault with a penis," he said, adding that while relaxation, emotional readiness and lubrication are necessary for a woman to enjoy sex, the opposite occurs in rape.

And, still, it is common for people, male and female alike, to blame the victim of rape and make value judgments about the relative propriety of her behavior, he noted.

But police, who deal with the survivor most immediately after the rape, when she is still most vulnerable, have a particular responsibility to refrain from suggesting blame, O'Reilly emphasized.

"If she did something that wasn't too smart, she does not need you to tell her. She knows. She will relive it for the rest of her life. An essential part of the healing process for the victim of rape is for her to realize that she is blameless," he

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Cornell women



Chris Hildreth/University Photography

University alumnae (from left) Fredricka Brecht, Carol MacCorkle and Jan Nickerson review information last week during a campus meeting of the President's Council of Cornell Women. Council members, who serve as advocates and advisers on women's issues, discussed career choices for women, pay equity in academia and sexual harassment, among other topics.

NOTABLES

President Frank H.T. Rhodes and John E. Hopcroft, professor and chairman of the Computer Science Department, have been nominated to the National Science Board by President Bush. If confirmed by the U.S. Senate, Rhodes, currently a board member, would be reappointed to a six-year term. Hopcroft would begin his first term, with service to start May 11. The 24-member National Science Board oversees the National Science Foundation, which initiates and supports basic scientific research and education in this country. Rhodes, 65, was appointed to the board in 1987. Cornell's ninth president, he has been in office 15 years. He holds the faculty rank of professor of geology. Hopcroft, 52, is a member of the National Academy of Engineering and has been at Cornell since 1967. His current research is in the area of information capture and access.

English Professor Scott McMillin, philosophy Professor Allen Wood and Goldwin Smith Professor of History Steven Kaplan have won National Endowment for the Humanities Fellowships for University Teachers for 1992-93. McMillin, a specialist in English drama, will spend the year writing a

book on the Elizabethan acting company known as Queen Elizabeth's Men, which flourished in the late 16th century. "The standard approach to Elizabethan theater focuses on authors, mainly Shakespeare. I am concentrating on the acting companies instead, where the work was really done," McMillin said. "The queen's company was a major company, in the center of things, but it is hard to say who wrote their plays. Shakespeare did not write for them—or if he did, nobody knows it. Yet they were influential," McMillin said. Wood will be writing on the topic of "Kant on Morality and Human Nature," and Kaplan, who has won a senior research fellowship, will spend a year in France working on "Apprenticeship in 18th-century France."

Two seniors and a 1990 graduate were among 80 winners of the 1992 Mellon Fellowships in the Humanities. They are senior students Ben J. Hennelly, a classics major from Ballston Spa, N.Y., and David M. Levine, an English major from New York City, and 1990 graduate Ellen B. McGill, a history student from Flushing, N.Y. The fellowships are awarded to seniors and recent graduates of outstanding promise to encour-

age them to pursue academic careers in the humanities.

Andre LeClair, an assistant professor of physics, is one of 90 young scientists and economists selected to receive Sloan Research Fellowships from the Sloan Foundation. The recipients were selected based on their exceptional promise to contribute to the advancement of knowledge.

Ten Cornell student-athletes have received All-Ivy Academic Honors for winter sports. They were among 80 men and women in the Ivy League who were starters or key reserves on varsity teams and also had a 3.0 or better cumulative grade-point average. The Cornell student-athletes are: Jennifer Cobb, track and field, a neurobiology major; Loren Mooney, track and field, English and history; Kim Ratushny, ice hockey, law and society; Heather Roberts, swimming, hotel administration; Karen Tedesco, gymnastics, biology; Dave Burke, ice hockey, mechanical engineering; James Fahie, track and field, mechanical engineering; Mark Ferguson, wrestling, nutritional sciences; Jeff Gaca, basketball, government; and Alan Simon, fencing, economics.

BRIEFS

• **United Way:** William Chernish, assistant dean of the School of Hotel Administration, has been elected to the board of directors of the United Way of Tompkins County. In addition, the following were re-elected to the board: Mildred E. Warner, associate director of the Community and Rural Development Institute; Joel Zumoff, computer audit manager; and Brian Earle, senior lecturer in communication.

• **In-service:** Proposals are being sought for the Faculty Fellow-in-Service Program, which supports opportunities for faculty and undergraduates to work together in community service. Funded by the President's Fund for Educational Initiatives, the program was created by the Cornell Public Service Network, composed of faculty, students and administrators committed to the mission of community service. For more information on submitting proposals, contact Stuart W. Stein, 255-6852; Ruth Bounous, 255-2503; William Carlsen, 255-7758; Ann Hales, 255-8220; Risa Lieberwitz, 255-3289; David Lyons, 255-6475; or Mary Sansalone, 255-2348.

• **Homeless:** The Cornell and Wells College women's lacrosse teams raised \$1,300 for the homeless during their season last spring. The money was presented to representatives of the Task Force for Battered Women on Saturday at the team's game with Brown. Before last season began, players on both teams solicited sponsors to pledge amounts of money for goals scored and goaltender saves.

• **Photocopying:** All photocopiers in campus libraries now accept any library vendacard, eliminating the need to carry multiple vendacards. In addition, new copiers have recently been installed in several libraries, including Olin, Uris, Engineering, Law, Mathematics, Fine Arts, Music, Africana, Physical Sciences, Management and the Annex. More information, including questions about vendacards, should be directed toward Kex/Copy Source in 279 Clark Hall; their hours are 11 a.m. to 2 p.m. Monday through Friday and 2 to 4 p.m. Saturday and Sunday.

• **Visas:** Changes in regulations due to the Immigration Act of 1990 will be reviewed on April 15 at 7 p.m. in Hollis Cornell Auditorium, Goldwin Smith Hall. Representatives of the International Students and Scholars Office and of the Ithaca law firm of Trout Walsh and Miller will discuss changes regarding foreign students working off campus and foreign students working as professionals after graduation, among other changes.

• **College Bowl:** Cornell's College Bowl team won the regional championship at Syracuse University and will compete in the national event at George Washington University.

• **Parking appointment:** Carl R. Cohen has been named manager of parking information and field services by the Office of Transportation Services. Cohen will supervise campus parking enforcement, field services and signage programs.

CORNELL
Chronicle

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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

Degree: All requirements for a May degree must be completed by May 15, including submitting the dissertation/thesis to the Graduate School.

Summer: Forms for summer graduate registration will be available May 11 at the Graduate School information desk, Sage Graduate Center. Students receiving summer support from the Graduate School should submit their form by May 20. Students must register if they are receiving financial aid during the summer (such as summer assistantships or fellowships); wish to use campus facilities during the summer; or are off campus but need to be registered for summer study. Registration must be done in person at the Graduate School. Student ID is required. Graduate students who have been registered for a regular semester during the preceding academic year do not pay tuition for non-credit summer registration. Students approved for summer residence credit must pay the appropriate prorated Graduate School tuition rate.

OBITUARY

La Verne L. Pechuman, professor emeritus of entomology and an authority on the Tabanidae (horseflies and deerflies) and curator of insect collections at Cornell from 1962 until his retirement in 1982, died Monday, March 30, at Strong Memorial Hospital in Rochester, of cancer.

He was 78 and had continued to be active in his research until about three weeks before his death.

A member of the Cornell Class of 1933, he worked for the Ortho Division of Chevron Chemical Co. from 1939, the year he received his doctorate from Cornell, until returning to Cornell as an associate professor in 1962. He was named a full professor in 1972.

Born and raised in Lockport, N.Y., Pechuman also earned a master's degree from Cornell, in 1937.

Survivors include two daughters, Patricia A. Ferris of Bergen, N.Y., and Jean K. McIntyre of Waterville, Maine; a sister and two grandchildren.

Faculty panel from SUNY to meet here

The Faculty Senate of the State University of New York will meet on campus today through Friday, with participation by SUNY Chancellor D. Bruce Johnstone and State Education Commissioner Thomas Sobol.

Money — particularly the loss of it under the state budget approved last week — will be of special interest to the 50-member advisory group, which rotates campuses for its thrice-yearly meetings.

Under the 1992-93 budget, SUNY is required to cut \$60 million even after a \$500 tuition hike; Johnstone said last week that that would eliminate more than 1,100 jobs, including several hundred by layoffs.

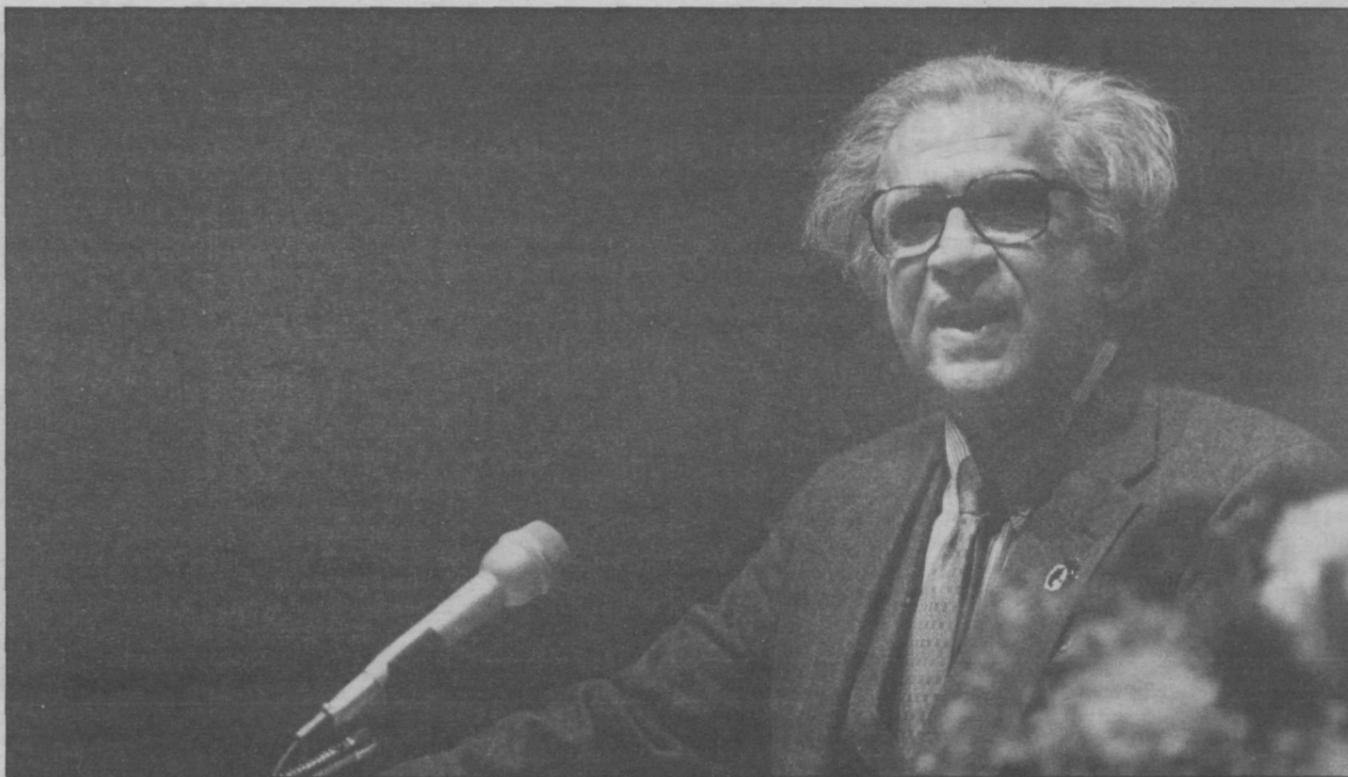
The senate's executive committee meets Thursday. The plenary session will be welcomed by Cornell's provost, Malden C. Nesheim, on Friday at 9 a.m. in the Biotechnology Building's conference room.

Johnstone will join a dialogue on Friday from 3 to 5 p.m. in the Biotechnology conference room.

Sobol will join a discussion on Saturday from 9 a.m. to noon in the Biotechnology Building conference room on a SUNY task force report concerning academic preparation for SUNY freshmen.

The task force was set up eight months ago to seek SUNY counsel on Sobol's "New Compact for Learning," a plan to reform primary and secondary public education. It was charged to suggest "the content and level of learning that would assure beginning students a reasonable chance of successfully completing a freshman year... in a bachelor's or associate's degree program.

The preliminary draft report avoids precise definition either of necessary skills or levels of knowledge. On reading skills needed for college, for instance, it says students should be able to describe a work's characters and main ideas; on writing, he or she should be able to gather, organize and clearly express thoughts.



Shri Abid Hussain, India's ambassador to the United States, said during a campus lecture April 1 that the two countries should establish closer relations.

Indian diplomat predicts improved relations

By Albert E. Kaff

The end of the Cold War will enable India, the world's most populous democracy, and the United States to re-establish the close relations they shared 40 years ago, Shri Abid Hussain, India's ambassador to the United States, told a Cornell audience on April 1.

The two nations will draw closer because they are committed to democracy and free market economies, and because India and the United States bear some similarities by being multicultural societies, the envoy said.

Invited to Cornell by the Indian Student Association, Hussain spoke and answered questions for one hour and 20 minutes before an audience of 200 people, most of them students and many of them Indians.

"For peace and stability, democracy must be sustained, and you must have a free market economy," the ambassador said. "India is close to this ideal. India has never abridged democracy."

On the economy, Hussain said that all of India's agriculture is in private hands and its industry is coming closer to an open market economy.

"In the 1950s we had starvation, and today we are able to export food," he said. Until the 1970s, he added, India was competitive in manufacturing machine tools, steel and locomotives.

"What went wrong was that India did not acquire the latest technology, did not allow competition and others overtook us," he continued. "Now we are allowing competition. But we are not satisfied with what we have achieved. Our accomplishments are significant but not satisfactory."

Hussain noted that India, a nation of 844 million people, once consisted of two classes, rich and poor. But in the last five to six years, a new middle class has emerged from the ranks of the poor and now includes about 200 million people.

From virtually nothing in the 1950s, India has developed to the point where it now includes one-sixth of the world's professionals and one-tenth of the world's industries, Hussain said.

The ambassador then gestured toward two bowls of flowers on the podium while comparing India's native linguistic and religious groups with America's immigrants, saying

that the United States is a melting pot, while "India is a beautiful mosaic that we have created, like these bouquets of flowers, like a rainbow."

Tracing Indo-U.S. relations from World War II, the ambassador noted that Winston Churchill said he was not serving as Britain's prime minister to preside over the dissolution of its empire, while Franklin D. Roosevelt articulated the end of colonialism as one of America's wartime goals.

"In the 1950s, we suffered terrible famine, and the United States shipped us grain," he said. "Then something happened that made certain changes in our relations. This was the Cold War that led to a cooling of our relations with America."

During U.S.-Soviet confrontation, India adopted a non-aligned policy "that created a certain rift between America and India," he said. "But as we enter the post-cold war today, the confrontation policy has come to an end, America and the former Soviet Union are not on the warpath, and you are seeing a change of America's position on the [Indian] subcontinent. India and America are coming closer."

Hotel students to mix charity, education and fun this weekend

By Albert E. Kaff

When students take over the Statler Hotel on Friday to demonstrate their professional skills to the industry for two days, they will mix fun with education and charity, and it will be a hot time for everyone.

Students in the School of Hotel Administration will entertain about 350 hospitality industry executives and Hotel School alumni from the United States and Europe with a weekend of receptions and dinners on themes ranging from a Caribbean carnival and a Texan lunch to a prison.

The 67th annual Hotel Ezra Cornell (HEC), during which the professional management and staff turn all hotel operations over to students, will revolve around the theme "Some Like It Hot!"

Although costumes and fine dining will dominate the two-day event, the 500 students who will run Hotel Ezra Cornell want this year's program to be remembered for more than its traditional fun.

"In response to increasing demand, we are trying to elevate the level of intellectual stimulation during the weekend activities," said Julie Matiba, the program's marketing director. "We are continuing in our efforts to change the traditional focus of HEC as a weekend of festivity by addressing various social issues."

Unlike some of her fellow students facing a depressed hotel industry, Matiba is assured a job after she graduates from the Hotel School in May. She will return to Kenya, where her family is in the hotel business.

Managing director of this year's Hotel

Ezra Cornell is Peter Christ of Edina, Minn., a Hotel School senior who plans to enter the resort industry when he graduates in May.

On the serious side of the weekend gala, Hotel School faculty and guest speakers will present a series of executive education seminars for Hotel Ezra Cornell visitors on Saturday.

Donated wines and wines selected from the Hotel School's collection will be auctioned that day, and the proceeds donated to the Greater Ithaca Activities Center.

The weekend's keynote address will be delivered by Chris Hart, president of Total Quality Management, a Boston-based management consulting firm.

He will address the topic "Service Guarantees," a hotel's promise of good service to its guests similar to a warranty on a consumer product.

After graduating from the Hotel school in 1972, Hart taught in the school and later in the Harvard Business School.

The weekend's social events will include a reception based on a junkanoo, a Caribbean carnival; a breakfast behind bars, served in a room fitted out like a jail by a staff in prison uniforms; a Pharaoh's cocktail hour served "in the splendor of Egyptian palaces"; a Casablanca dinner inspired by the words of Humphrey Bogart, "Here's looking at you kid"; a home-style Texan lunch; and an afternoon polo match by Cornell's polo team and coaches on the Oxley Polo Grounds.

For the second consecutive year, all students working for HEC were required to take instruction in Training for Intervention Procedures by Servers of Alcohol.

Feeding her mind



Sachina Lyons, a junior majoring in animal science, reads outside of the Trillium dining facility at Kennedy Hall.

Simple starch protects workers from pesticides

By Roger Segelken

Ordinary laundry starch on regular cotton clothing protects pesticide applicators from many harmful chemicals, Cornell textile scientists have shown.

The finding that starch binds with most chemical pesticides and holds them away from the skin until the clothing is washed was reported Tuesday at the national meeting of the American Chemical Society.

While they are not ready to declare a washday miracle — and they are still working on starch's familiar problem of stiffness — the Cornell scientists hope their finding will benefit pesticide applicators who disdain the bulky, uncomfortable chemical-resistant suits.

"Most pesticide application is done in hot, humid weather or in greenhouses where the lack of air permeability through heavy protective suits becomes a job efficiency problem," explained Charlotte Coffman. The extension associate in the Department of Textiles and Apparel trains licensed pesticide applicators to protect their health.

She said a pesticide education program, which began here and has been distributed throughout the country, tells workers: "No, you don't need to dress like you're rooming with killer bees for every pesticide application, but you do need to protect yourself." So researchers needed to offer alternatives to the so-called space suits.

"We knew that starch is used by the chemical manufacturers as a medium for slow-release pesticides, and we knew how to treat cloth with starch. We asked whether ordinary laundry starch would bind with pesticides and trap them away from the skin," said S. Kay Obendorf, professor and chairwoman of the Department of Textiles and Apparel and director of the research.

The researchers found that laundry starch in cotton and cotton-polyester clothing met three requirements: Starch provided a durable finish that trapped chemical pesticides and prevented their transfer to the skin; it allowed moisture



Using backscattered electron imagery, Vasudha Ravichandran, a research associate in textiles and apparel, shows how starch binds pesticides to clothing fibers.

vapor transport away from the skin; and the starch-bound chemicals rinsed away in the wash.

Back-scattered electron imaging, which Vasudha Ravichandran, a Cornell research associate, presented at the ACS meeting, showed how starch binds pesticides to individual fibers of clothing, yet releases the pesticides in soap and water.

The finding allows educators to recommend starched pants and long-sleeved shirts for many pesticide applications. They note that additional equipment such as gloves, aprons

and boots, is needed for special tasks, including mixing concentrated chemicals.

Pesticide-contaminated clothing should be washed separately, they said. After washing contaminated clothing, the washing machine should be run at least one complete cycle with only water and detergent.

"We fully acknowledge a stiffness problem with starch," Obendorf said. "In further research, it is possible that other fabric finishes with similar pesticide-binding properties might be identified."

'MAP' gas packaging method gives fresh fish a longer shelf life

By Roger Segelken

Thousands of miles away and weeks out of the water, fresh fish can be safe and palatable if shipped in modified atmosphere packaging (MAP) gases that inhibit spoilage, a Cornell University food scientist says.

A major obstacle between consumers and MAP fish is a go-ahead from overly cautious federal agencies, according to Joe Regenstein, the professor of food science who has studied the packaging technique for more than 15 years.

Ten years of MAP fish sales in Great Britain has proved the technique safe and acceptable, Regenstein said Wednesday at the national meeting of the American Chemical Society. Regenstein was part of a panel with federal and state officials on seafood safety.

Modified atmosphere packaging uses a different proportion of the gases normally found in air by pumping the mixture into plastic packages. This atmosphere makes life

difficult for microorganisms that spoil fish, Regenstein said.

"Modified atmospheres packaging can extend the shelf life of fresh, unfrozen fish for a couple of weeks, depending on the type of fish. The technique works best for white fish of the flounder and cod families, but salmon, for example, will keep for a month in modified atmosphere and proper refrigeration," Regenstein said before the meeting.

Increasing carbon dioxide to 60 percent (from about 3 percent in air) kills or makes dormant the microorganisms to which carbon dioxide is toxic.

At the same time, keeping oxygen at the normal atmospheric level (about 21 percent) or above inhibits growth of anaerobic bacteria, such as those responsible for botulism, without promoting the oxidation of fats that makes old fish, such as salmon, rancid. The remainder of the atmosphere is nitrogen, the inert atmospheric gas.

The fish could be packaged in portions of various sizes in microwaveable trays at a

central processing plant and shipped under refrigeration throughout the country, Regenstein suggested. The see-through plastic packages would include seemingly empty "head space" for the modified atmospheres, as well as information on the date and technique of processing and instructions for cooking.

"Supermarkets would like MAP because they would need only one delivery of fish a week, rather than several," Regenstein said. He noted that the process works best with fish that will be cooked and would not be appropriate for extending the shelf life of raw sushi or raw smoked fish.

Another center for studying MAP is the Torry Research Station in Aberdeen, Scotland. Based on the Scottish studies, the United Kingdom issued guidelines for MAP, and the process has been used commercially, without problems, ever since, Regenstein reported.

However, the process has never received official approval in this country. Government scientists generally use many times

more microorganisms than would realistically be found in fish — then assume that consumers would not follow common sense instructions, Regenstein said.

"If you leave fresh fish out on a counter for four days and eat it raw, you might get very sick," Regenstein said. "Microorganisms and atmospheric gases and food can make a complex system, but if we take the trouble to understand what is going on in these complex systems it is possible to make a safe product. Nobody [at U.S. government agencies] has tested MAP in real-world conditions."

Regenstein and his Cornell colleagues tasted fish they had stored under modified-atmosphere conditions and in regular air (as an experimental control) in a refrigerator for two months — far longer than the recommended shelf life for the MAP process.

They tasted just enough of the control (untreated) fish to verify that it was spoiled, then spit it out. The MAP fish, they had for lunch.

New test to detect hard-to-find drugs attracts interest of NCAA

By William Holder

Substances difficult to detect in the human body such as LSD, anabolic steroids and fleeting complexes of drugs with their target molecules can be identified easily and accurately using techniques developed by Cornell scientists.

These techniques could be used to check athletes for illegal substances, greatly reduce the time it takes pharmaceutical companies to compare possible drugs for effectiveness, or detect toxic pollutants in the range of a trillionth of a gram per milliliter.

Technological advances made during the last seven years mean that LSD, present in urine at the vanishingly small concentration of 10 to 100 trillionths of a gram per milliliter, now can be directly detected for the first time, according to Jack Henion, associate professor of toxicology in the College of Veterinary Medicine. Henion has pioneered the use of a sophisticated detection system (mass spectrometry) with powerful, modern techniques for separating complex mixtures.

"LSD is unstable and sensitive to heat used in previous analytical approaches," he said. "Our technology handles the molecule with kid gloves."

Because the techniques are fast, relatively easy to use and involve equipment that is

commercially available, the National Collegiate Athletic Association has contracted with Henion to develop improved methods for detecting the metabolic products of anabolic steroids in athletes. Current tests involve a time-consuming and expensive procedure that is not always reliable, he said.

Speaking Wednesday at the national meeting of the American Chemical Society, Henion said one of the most recent applications of the techniques enable researchers for the first time to detect complexes of drugs and their receptor molecules, which fit together like a lock and key. The approach, developed in collaboration with Bruce Ganem, professor of chemistry at Cornell, is also applicable to enzymes and the substances they transform, known as substrates.

"This technique can actually detect the very weak interactions between an enzyme and a substrate, which is the basis of biological function," Henion said. "Finding these intermediates has always been a subjective, indirect and elusive task."

"We can also see different drugs competing to lock into the same receptor site," he added. These complexes of drugs and their targets are fleeting entities that quickly break down to other products and are exceedingly difficult to study. They are very important, however, because drugs that bind strongly to

their targets are generally the most effective. Preliminary results suggest that the researchers may be able to show which among several similar drugs is the most effective at binding. Pharmaceutical companies spend years obtaining this information through complicated laboratory tests, but Henion's and Ganem's technique works in minutes. Whether this approach will prove to be broadly applicable in pharmaceutical screening, however, remains to be seen.

Nonetheless, Henion points out that the potential application to drug screening "opens up a huge new area that a year ago no one knew existed."

Henion's approach puts together techniques that previously had been unrelated — chromatographic separation procedures and mass spectrometry. Mass spectrometry, one of the most widely used of analytical techniques, identifies compounds by their size, or molecular weight, and a fragmentation pattern that serves as a "fingerprint" for each substance.

The separation techniques go by names such as high pressure liquid chromatography, ion chromatography and capillary electrophoresis. The technology developed by Henion and his collaborators to combine separation with mass spectrometry has become a standard feature of commercially marketed

mass spectrometers, he said.

The crucial, patented advance developed by the Cornell researchers is known as ion spray (pneumatically assisted electrospray). It permits a continuous flow of sample to be fed into the mass spectrometer and simultaneously imparts multiple electric charges to large sample molecules, such as proteins. With the multiple charges, mass spectrometers can identify molecules up to 100 times larger than by previous techniques.

The ion spray technique, as well as some related approaches used with smaller molecules, have a wide diversity of applications, including:

- Detection of breakdown products of antibiotics (aminoglycosides) in meat. Henion, who has worked with the Food and Drug Administration and the U.S. Department of Agriculture, said that for some antibiotics no other technique works.

- Detection of estrogens in meat. Use of these hormones by livestock farmers is a federal offense.

- Forensic detection where no other technique is available. Henion was called on in 1991 to analyze badly decayed tissue for oleander, a potent poison, in a suspected homicide. At the time, no other laboratory in the world was capable of doing the analysis. No oleander was found; the case was dropped.

Gould links fewer life forms with extinction of .400 hitters

By Roger Segelken

Rather than producing a predictable outcome, each replay of the "tape of life" would produce a different evolutionary outcome — and humans wouldn't be any of them, Harvard University paleontologist Stephen Jay Gould has maintained since the 1989 publication of his controversial book *Wonderful Life*.

Delivering the Olin Lecture Tuesday night to a packed Bailey Hall, Gould replayed familiar themes on the topic "Why Progress Does Not Rule the History of Life, and Why No One Hits .400 Anymore." Surprisingly, there were no serious objections voiced to his interpretation of fossils or batting averages.

A lifelong baseball fan since his youth in the Bronx and now a magazine essayist who thinks that our being here is the most unlikely happenstance, Gould couldn't help but note the coincidence of his lecture and opening day of the Major League Baseball season. Also, as it happens, the last year that a Major League player hit .400 was 1941, the year of Gould's birth.

Batters haven't gotten worse since then, and that wasn't a golden age when men were giants, Gould said. The average batting average has held at around .260 partly because "the baseball moguls keep changing the rules," Gould says, and the .400 hitters are extinct because of better pitching and fielding.

The fact that there are no longer as many distinctly different forms of life as there were 500 to 600 million years ago (the golden age for fossil-hunters), the so-called Cambrian "explosion," has something to do with baseball, according to Gould.

The declining batting averages and the shrinking number of life forms, he said, "is a reflection of general improvement of play: Variations will decrease as systems stabilize. You can only hit 'em where they ain't if people don't know where they ought to be."

Also gone are the days "when you could still get a job if you were a good fielder but couldn't hit."

But this isn't the age of humans or even the age of mammals, either, the paleontologist said. That honor, he thinks, should go to the planet's dominant creature, the bacterium. "There are more *E. coli* in each person in this room than there have ever been humans on Earth."

Gould drew chuckles from the audience with a series of slides showing artists' and cartoonists' interpretations of the ascendancy of humans. Apes are always at the lower left and humans are at the upper right.

Gould has the same trouble with another graphic depiction, the cone of increasing diversity.

"I don't deny that it started with a single common point of ancestry," he said. The cone model is misleading, he said, because the organisms we place at the wide "top," the mammals, for instance, currently take the fewest different forms. So there is not enough room in the narrower middle of the cone for the "lower" animals, such as fish and insects, with many more species.

Gould's reading of the history of life since the Cambrian explosion doesn't fit in a simple cone. "Maximum diversity is reached right away, with the loss of most initial designs. There are more and more species in fewer kinds of anatomical groupings," he said.

Today, he noted, there are three types of arthropods; in Canada's Burgess Shale, the Cambrian outcropping he analyzed for "Wonderful Life," there "were 20 additional kinds of arthropods that didn't make it, including 10 or 15 so bizarre we don't know what to do with them."

Evolution since then, Gould said, "was the biggest version of the Irish Sweepstakes ever played. Some make it, some don't. If you could rewind the tape of life, you would get a completely different result."

As expected, an animated Gould gave an entertaining performance, roaming the stage in rolled-up shirt sleeves to joke about the appearance of some of the fossils he pictured. He forbid photographs "before, during or after" his talk, setting the same rules that apply to theater actors.

The lecture was filled with digressions, including a reference to "the greatest living American," Joe DiMaggio; Gould displayed a slide showing him and his son sitting with the Yankee Clipper on a park bench.

A question and answer period provoked no arguments. Some in the audience had requests for clarification or comments on such topics as extraterrestrial life, the lack of modern mega-fauna larger than whales, and the implications of purposeless evolution for religion.

Gould met privately after the lecture with some of the graduate students who requested his appearance as part of the Spencer T. and Ann W. Olin Foundation Fellowship Program.

Rally caps



Peter Morenus/University Photography
Cornell baseball players Mark Stromp (left) and Tom Hutchins wear their caps inside-out in an attempt to change the team's luck during a double-header loss to Yale on Monday.

Professor seeks research ideas for businesses

Professor David BenDaniel, an entrepreneur who teaches Cornell students about starting new businesses, is trying to spread the word to academics across the campus.

He has started a seminar at the Johnson Graduate School of Management, where Cornell scientists discuss their research and BenDaniel's M.B.A. students are encouraged to look for deals and seek their fortunes as part of the speakers.

The third in the experimental series, called "Research and New Business," will be held April 13 from 4 to 5:15 p.m. in Room 253 of Malott Hall. All potential buyers and sellers — students, faculty or other — are welcome.

The speakers will be Geoff Burnham, president of NorthEast Semiconductor, a company formed by electrical engineering Professors Lester Eastman and James R. Shealy, and Bob Silver, associate professor of physiology, who will discuss possibilities for businesses based on his research in microscopic imaging.

BenDaniel, who holds a Ph.D. in engineering from the Massachusetts Institute of Technology, has the immediate and practical goal of seeing more business spun off from Cornell research. But he is at least as moved by the intellectual dimension of his experiment.

"I want to invigorate the intellectual climate of the university," he says, "to promote a forum where people from varied disciplines can think through the societal and business implications of research."

"I am convinced," BenDaniel says, "that the intellectual discipline of managing technology for a successful business is of the same order as the intellectual discipline of developing the technology."

BenDaniel, the Don and Margi Berens Professor of Entrepreneurship at the Johnson School, has inspired numerous undergraduates and M.B.A. students of his entrepreneurship course to start their own businesses. And occasionally, persuaded by the soundness of the business plans they write for him, he has encouraged investors to participate.

He has also encouraged his students to prowl Cornell in search of business opportunities. Ex-students are involved now in at least two Ithaca-area high-tech businesses so discovered.

What if Columbus was greeted by video cameras?

By Martin B. Stiles

What would the history of the Americas be today if the people who already were here greeted Christopher Columbus and the hordes of newcomers who followed with whirring video cameras instead of open arms?

That is exactly the technique that the Kayapo Indians of the Amazon in Brazil have been using since 1985 in dealing with representatives of the Brazilian government, because — as the half-naked, paint-decorated, spear-carrying Kayapo in one video put it — "White men are liars."

The Kayapos' story was told by anthropologist Terry Turner, a senior research fellow at the Society for the Humanities, during a two-day conference here April 3 and 4.

The conference, titled "Goodbye Columbus: Rethinking Media and Representation," was co-organized by Turner, who teaches at the University of Chicago, and two other fellows of the Society for the Humanities: M. Annette Jaimies of the University of Colorado at Boulder and a specialist in American Indian studies, and Ella Shohat, a specialist in cinema studies at City University of New York.

Through their own video recordings of demonstrations and meetings conducted with exemplary subtlety of intellect, the Kayapo have achieved much in preserving their autonomy and way of life, Turner said. They have prevented the Brazilian military from taking possession of a gold mine on their lands, stopped construction of a hydroelectric dam and embarrassed a Brazilian judge into dropping charges against a Kayapo whom he had demanded put on "civilized clothing" before appearing in court.

The Kayapo already have shared their video approach with the Cree Indians of Canada, who are fighting a proposed hydroelectric project on their lands, he added.

In addition to the presentation by Turner, who has devoted years to collaborative work with the Kayapo and their use of video, 25 scholars critiqued history, literature and art as they addressed past and current manipulation by the "dominant culture" in perpetuating a myth of European superiority.

The polarities of the views on Christopher Columbus can be summed up on one side with a recent newspaper headline: "Man's best came with Columbus; he and Western culture deserve highest praise." On the other

side analyses were that "Columbus' main legacy was death and destruction," that he is "a symbol of greed, slavery, rape and genocide," in the words of conference speakers.

Current attempts by the dominant culture to tell the true story of the interactions between the Eurocentric culture and the indigenous peoples are only sophisticated ways of maintaining the power of the dominant culture and fulfilling its policy of genocide, which includes the idea of assimilation, said Ward Churchill of the University of Colorado.

In a critique of the film "Blackrobe," much acclaimed for its accurate recounting of relations between the French and Indians in the St. Lawrence Valley around 1634, Churchill said that the ultimate and unacceptable message of the film is "this was inevitable, but let's get on with it."

But Catherine Benamou of New York University, mentioning that Brazil's Parakateje Indians are using video cameras to resurrect their language, quoted an Ecuadorian Indian as saying: "Recuperating what is ours, we come to know ourselves, we unite ourselves since we are like dried leaves which together make a large fire."

Cornell's fourth president studied American-Indian culture

By Martin B. Stiles

Did you know that Livingston Farrand, Cornell's fourth president (1921-37), was the author of a 1904 book that he hoped would provide the first comprehensive look at the significance of American Indian tribes and their culture in the unfolding history of the United States?

The book, *Basis of American History, 1500-1900*, was the second of a 26-volume set titled *The American Nation: A History*, published by Harpers & Brothers.

Farrand, who at the time he wrote the book was a professor of anthropology at Columbia University, said that the lack of a comprehensive book on the continent's aborigines "has long been a source of embarrassment to students of American ethnology," particularly in view of "an enormous mass of available information."

Probably the most useful aspect of Farrand's book is the final chapter, which is an extensive bibliography with his critical comments on writings and records dating as far back as 1624 — an ironic contribution

considering that his own book is not listed in any of the current bibliographies of works about American Indians.

In his book, Farrand refers to a number of perspectives as "popular misconceptions" about Indians, including their so-called infe-

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History

rior intelligence and their indifference to pain.

He says that these "misconceptions" have played "an important part in the chapters of American history which covers the relations of the white man and his government towards Indians. Leaving entirely out of account the dishonesty and oppression which have been too frequent in the administration of Indian affairs, the failure to understand and appreciate the working of the Indian mind and the

nature of his customs, has led to well-intended interference, which has often produced serious disturbance, unrest and revolt."

He added that "the future of the Indians cannot be predicted with confidence," but that "in light of the processes now in operation, gradual absorption by the surrounding whites seems to be the Indian's most probable fate."

Farrand, who died in 1939, graduated from Princeton University in 1889 and earned a medical degree from Columbia and masters degree in arts from Princeton, both in 1891. He studied at Cambridge University and the University of Berlin until 1893 when he joined the Columbia faculty. Before coming to Cornell he was president of the University of Colorado for three years. After retiring from Cornell he served as president of the American Red Cross.

During his tenure as president of Cornell, Farrand played a key role in the merger of New York Hospital and Cornell Medical College and its initial development as one of the world's leading medical centers.

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 sub-heading 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 257-7711.

Planning meeting, 6:30 p.m.; workshop review, 7:30 p.m.; request dancing, 8:30 p.m.; April 12, North Room, Willard Straight Hall.

Global Dancing, co-sponsored by the Cornell Wellness Program, April 14; teaching, 7:30 to 9 p.m.; open dancing, 9 to 10 p.m., Dance Studio, Helen Newman Hall.

Israeli Folkdancing

Israeli folkdancing, teaching and open dancing, Thursdays, 8 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.

Box lunch tour artbreaks will continue with "Art of Creating: European Art/Thematic Tour" today, April 9. Tours are open to the public without charge and begin at noon.

"Contemporary Latin American Art: Selections from El Museo del Barrio," featuring seven paintings by Luis Cruz Azaceta, Myrna Baez, Wilson Brandao-Giono, Felix Cordero, Jacqueline Biaggi-Mascaro and Nitza Tufino, will be on exhibit through April 12. The exhibition is co-sponsored by La Asociacion Latina and coincides with Latin Month (April) at Cornell, when a variety of campuswide events will be held, including lectures, musical performances and films.

"Nature's Changing Legacy: The Photographs of Robert Ketchum," featuring approximately 75 photographs from the years 1970 to 1991.

Olin Library

"Liberty and Its Limits: France in Revolution, 1792-1797," an exhibition of pamphlets, prints, books and manuscripts, through April 23. Curators are Nan E. Karwan, history, and Mark Dimunation, rare books, Olin Library.

Sibley Fine Arts Library

"The Sketch Book: Keeper of Ideas," an exhibition of sketch books by artists and scientists, through May 9, Sibley Fine Arts Library. Exhibited are sketch books by H. Abe, R. Ascher, M. Boyd, R. Dirig, R. Hoffmann, a Monk, B. Page, E.J. Shefrin and J. Wood. This is the fourth in a series of five Artist's Book exhibits curated by Laurie Sieverts Snyder, visiting lecturer in photography and artist's books in the Fine Arts Department.

Willard Straight Hall

"Kites!" a show featuring handmade and commercially manufactured kites from the collection of Catherine Holmes, through April 17.

FILMS

Films listed are sponsored by Cornell Cinema unless otherwise noted and are open to the public. All films are \$4.50 (\$4 for students) EXCEPT Monday Night Film Club (9:30 p.m.), \$3 for all; Thursdays, \$3.50 for all; Saturday Ithakid Film Festival, \$2 and \$1.50 under 12; Sunday Matinees, \$3.50. All films are held in Willard Straight Theatre except where noted.

Thursday, 4/9

"My Father's Glory" (1991), directed by Yves Robert with Philippe Caubere and Nathalie Roussel, 7 p.m.

"JFK" (1991), directed by Oliver Stone with Kevin Costner, Sissy Spacek, Joe Pesci and Gary Oldman, 9:30 p.m.

Friday, 4/10

"The Famine Within" (1990), directed by Katherine Gilday, 6:50 p.m.

"JFK," 7 p.m., Uris.

"The Rapture" (1991), directed by Michael Tolkin with Mimi Rodgers, Patrick Bauchau and David Duchovny, 9 p.m.

"Tribulation 99: Alien Anomalies Under America" (1991), directed by Craig Baldwin, 10:45 p.m.

"Pretty Woman" (1990), directed by Garry Marshall with Richard Gere, Julia Roberts, Ralph Bellamy and Laura San Giacomo, 10:45 p.m., Uris.

"Castle of Cagliostro" (1991), directed by Hayao Miyazaki, midnight.

Saturday, 4/11

"Castle of Cagliostro," 7 p.m.

"My Father's Glory," 7:15 p.m., Uris.

"Intervals of Silence" (1991), directed by Deborah Lefkowitz, 9:20 p.m. Free.

"JFK," 9:45 p.m., Uris.

"Pretty Woman," midnight.

Sunday, 4/12

"Moving Pictures 4: Photojournalism" (1934-85), directed by Margaret Bourke-White, Henri Cartier-Bresson and Susan Meiselas, 2 p.m., Johnson Museum. Free.

"My Sky, My Home" (1991), directed by Slamet Rahardjo, co-sponsored with East Asia Program, 2 p.m. Free.

"Castle of Cagliostro," co-sponsored with East Asia Program, 4:30 p.m. Free

"Susana" (1951), directed by Luis Bunuel, 7:30 p.m., Uris. Free.

"The Cherry Orchard" (1990), directed by Shun Nakahara, co-sponsored with East Asia Program, 8 p.m. Free.

Monday, 4/13

"The Famine Within," 7:20 p.m.

"Rouge" (1987), directed by Stanley Kwan with Anita Mui, Leslie Cheung, Alex Man and Emily Chu, co-sponsored with East Asia Program, 7:30 p.m., Uris. Free.

"The Manchurian Candidate" (1962), directed by John Frankenheimer with Frank Sinatra and Angela Lansbury, 9:30 p.m.

Tuesday, 4/14

"Tinpis Run" (1991), directed by Pengau Nengo with Rhoda Selan, Leo Konga and Oscar Wanu, co-sponsored with East Asia Program, 7:30 p.m. Free.

"JFK," 9:45 p.m., Uris.

Wednesday, 4/15

"Searching for Our Class" (1990), directed by Haung Kyu-Doek, co-sponsored with East Asia Program, 7:30 p.m., Uris. Free.

"Resident Alien" (1991), directed by Jonathan Nossiter with Quentin Crisp, John Hunt, Sting, Fran Lebowitz and Paul Morrissey, 7:50 p.m.

"Bugsy" (1991), directed by Barry Levinson with Warren Beatty, Joe Mantegna, Annette Bening and Ben Kingsley, 10 p.m.

Thursday, 4/16

"The Tiger Man," directed by Buddhadeb Dasgupta, co-sponsored with East Asia Program, 7:30 p.m., Uris. Free.

"My Mother's Castle" (1991), directed by Yves Robert with Nathalie Roussel and Philippe Caubere, 7:40 p.m.

"Star Trek VI" (1991), directed by Nicholas Meyer with William Shatner, Leonard Nimoy and DeForest Kelley, 10 p.m.

LECTURES

Africana Studies & Research Center

"Democratization and Economic Justice in Africa," Peter Anyang-Nyong'o, secretary general, African Association of Political Science, Nairobi, Kenya, April 14, noon, Hoyt Fuller Room, 310 Triphammer Road.

"Why Do I Have to Study Racism and Sexism? General Education Reform in the SUNY System," Kathryn Russell, visiting scholar, Africana Studies, SUNY Cortland, April 16, noon, Hoyt Fuller Room, 310 Triphammer Road.

Archaeology

"The Gallo-Roman Countryside," Willem J.H. Willems, Dutch State Archaeological Service, April 16, 8 p.m., 22 Goldwin Smith Hall.



Martha Swope Associates/William Gil
Jennifer Carroll (left) as Kate and Jil Cato as Bianca will appear in The National Shakespeare Company's presentation of *The Taming of the Shrew* in Bailey Hall on Sunday, April 12, 8 p.m. See the Theater listing for ticket information.

Boyce Thompson Institute

"From Adh to Leaf Surface Waxes: Genetic and Molecular Analysis of Gene Expression in Maize," Julie Vogel, University of California, Berkeley, April 13, 2 p.m., auditorium, Boyce Thompson Institute.

Classics

"The Origins of Ancient Greece: Oriental Roots?," a debate, Martin Bernal, history and near eastern studies, and John Coleman, classics, April 9, 4:30 p.m., "D" Auditorium, Goldwin Smith Hall.

East Asia Program

"The Renegade's Path to Success in Japan: Why Conformity is not the Only Choice," Bernice Cramer, president, PAOS, Boston, April 13, 5:30 p.m., 253 Malott Hall.

"Change in the Cultural State of Mind of the Chinese During the Past Decade and its Expression in Drama and Film," Dong Jian, Vice President, Nanjing University, April 13, 4:30 p.m., 374 Rockefeller Hall. Presented in Chinese with no translation.

"Buddhism in the Modern World: Secularization or Protestantization?" Richard F. Gombrich, Oxford University, co-sponsored by South Asia Program and Religious Studies Program, April 15, 4:30 p.m., 230 Rockefeller Hall.

Education

"The Improvement of College Teaching in a Decade of Change," the fifth annual College Teaching Lecture Series: "Anticipated Relations of Community Colleges and Universities in the Decades Ahead: Implications for the Improvement of Teaching Transfer Students and for the Advancement of Technological Advancement in the Work Force," Eduardo Marti, president, Tompkins Cortland Community College, April 15, 4 p.m., Alumni Auditorium, Kennedy Hall.

Gottschalk Lecture

"The Russians Reclaiming Bakhtin," Caryl Emerson, one of the world's leading Bakhtin scholars, sponsored by the Department of English and the University Lecture Series, April 16, 4:30 p.m., Hollis E. Cornell Auditorium, Goldwin Smith Hall.

Hillel

"What Happens at Seder?" Topics in Jewish Tradition, April 14, 8 p.m., Founders Room, Anabel Taylor Hall.

Johnson Museum of Art

Robert Glenn Ketchum, photographer, as part of the Nancy G. Dickenson Visiting Artist Lecture Series, April 9, 5:15 p.m., 115 Olive Tjaden Hall.

Lesbian, Gay and Bisexual Studies Group

"Rebellion: A Reading of Poetry and Fiction," Minnie Pratt Bruce, co-sponsored by Gay, Lesbian and Bisexual Coalition, April 10, 7:30 p.m., 120 Ives Hall.

"Sodometrics," Jonathan Goldberg, April 15, 4:30 p.m., Kaufmann Auditorium, Goldwin Smith Hall.

"Hal's Desire, Shakespeare's Own Private Idaho," Jonathan Goldberg, April 16, 4:30 p.m., Guerlac Room, A.D. White House.

Neurobiology & Behavior

"Molecular Genetic Analysis of Growth Cone Guidance: Recognition of Intermediate and Final Targets," Corey S. Goodman, University of California, Berkeley, April 9, 12:30 p.m., Morison Seminar Room Corson/Mudd Hall.

Program of Jewish Studies

"The Jewish Legacy of Louis Brandeis," Jonathan Sarna, Brandeis University, April 6, 4 p.m., Guerlac Room, A.D. White House.

Science & Technology Studies

Nordlander Lecture in Science & Public Policy: "Map or Maze: Social Consequences of the New Genetics," Neil Holtzman, Johns Hopkins Institution, April 15, 4:30 p.m., Hollis E. Cornell Auditorium, Goldwin Smith Hall.

Society for the Humanities

"Thinking about Hysteria," Juliet Mitchell, April 9, 4:30 p.m., Guerlac Room, A.D. White House. Title to be announced, Anthony Appiah, D. University, April 13, 4:30 p.m., Guerlac Room, A.D. White House.

"The Epistemic Claims of Cultural Identity: Beloved and the Postcolonial Condition," Sankar Mohanty, English, April 15, 4:30 p.m., Guerlac Room, A.D. White House.

Title to be announced, Jonathan Goldberg, Johns Hopkins University, April 16, 4:30 p.m., Guerlac Room, A.D. White House.

Southeast Asia Program

"The Political Economy of Indonesia," Thorbecke, H.E. Babcock Professor of Economics and Food Economics, April 9, 12:20 p.m., 300 Rice Hall.

"Some Thoughts on the Upcoming Philippine Elections," F. Sionil Jose, editor, "Solidarity," leading Philippine author, Manila, April 13, 2:00 p.m., G-08 Uris Hall.

"An Introduction to Industrial Relations in Southeast Asia," Sarosh Kuruvilla, industrial and labor relations, April 16, 12:20 p.m., 300 Rice Hall.

Transcendental Meditation (TM) Clinic

"Physiological Correlates of Higher States of Consciousness," Fred Travis, Cornell alumnus, Maharishi International University, April 13, 4:30 p.m., Media Classroom B, Uris Library.

University Lectures

"Mapping the Self in Early Modern France," Tom Conley, The University of Minnesota, April 10, 4:30 p.m., Hollis Cornell Auditorium, Goldwin Smith Hall.

"Sodometrics," Sir William Osler Professor of English, The Johns Hopkins University, April 15, 4:30 p.m., Kaufmann Auditorium, Goldwin Smith Hall.

Western Societies Program

"Portugal: A Case Study in Democratization," David Goldey, Lincoln College, Oxford, April 12, 12:15 p.m., 153 Uris Hall.

W.R. Sears Distinguished Lecture

"Computational Fluid Dynamics and the Aeronautical Sciences," Antony Jameson, the James W. McDonnell Distinguished University Professor of Aerospace Engineering, Princeton University, will deliver the 8th annual W.R. Sears Distinguished Lecture, April 14, 4:30 p.m., 111 Upson Hall. The lecture series was instituted to honor William R. Sears, the founding director of the Grumman School of Aeronautical Engineering and the Center for Applied Mathematics. Jameson will give two lectures on "Analysis of Algorithms for Computational Aerodynamics," on April 15, 4:30 p.m., 111 Upson Hall; and "Applications of Computational Fluid Dynamics," April 16, 4:30 p.m., 111 Upson Hall. Jameson is internationally known for his development of computational techniques for the solution of aerodynamic problems.

French revolution is Olin Library exhibit

"Liberty and Its Limits: France in Revolution, 1792-1797," an exhibition of pamphlets, prints, books and manuscripts, is on display in Olin Library through April 23. Curators are Nan E. Karwan, history, and Mark Dimunation, rare books.

The exhibit was first conceived in 1989. During the bicentennial year of the French Revolution, the Library commemorated the revolution and initiated a range of projects to amplify possibilities for teaching and research in these resources. The current exhibit presents the commonplace constraints that surrounded and embattled the implementation of liberty nearly 200 years ago.

Since 1989, toppling of Lenin's statues in Moscow have refocused attention and lent a contemporary resonance to many of these issues. The tension between the curtailment of hard-won individual rights and palpable threats to republican ideals, the impact of a burgeoning public opinion, the demise of despotism, and the rise of tyranny confronted the French people of the 1790s and are explored in this exhibit through a variety of materials. Popular caricatures show a brazen Marie Antoinette leading a docile King through the sewers of Paris. Newspapers trumpet the ribald home-truths of a popular hero. So popular was this fictitious revolutionary, he provoked

numerous imitations and fakes. Speeches, citing the lessons of ancient Rome, proclaim the downfall of a dictator and describe the dangers facing French citizens.

Outside France, the French Revolution Collection of the Cornell Library is of unparalleled richness and extraordinary diversity. A monument to the vision of Andrew D. White, who established the original collection, as well as the Library's many friends who have supported it over the decades, this is a collection that serves students, faculty and visiting scholars from Europe and North America.

Cinema to show gay films in April

As part of Gay Awareness Month in April, Cornell Cinema will present a Gaypril FilmFest of seven evenings of films by gay and lesbian film makers.

The festival will include, among other films, "Homo Promo," an ironic anthology of Hollywood trailers; "Lesbians of Color," featuring several short films; "Voices from the Front," an AIDS activist documentary and "Black Lizard," a Japanese camp film starring Yukio Mishima, one of Toyko's finest female impersonators.

Cinema will host guest film maker Marlon Riggs, director of "Tongues Untied" and "Affirmations," on Friday, May 8. Riggs will show excerpts from his films as part of a lecture titled

"We Are the World: Multiculturalism Revisited." more information about film showings, see the Cornell Cinema Flicksheet, available from Cornell Cinema in Willard Straight Hall.

Juilliard quartet at Statler April 25

The world-renowned Juilliard String Quartet will perform the last concert of the 1991-92 Chamber Music Series in Statler Auditorium on Saturday, April 25, at 8:15 p.m.

The program will include the Quartet in F Major, K. 168, by Mozart; the Quartet No. 13 in B-flat minor, Op. 138, by Shostakovich; and the Quartet in F Major, Op. 135 by Beethoven.

The Juilliard Quartet, founded in 1946, is the longest continuously-existing chamber ensemble now performing. Its current members are Joel Krosnick, Robert Mann, Samuel Rhodes and Joel Smirnoff.

Many of the quartet's more than 100 recordings have won major awards and prizes. Members of the ensemble are on the faculty of the Juilliard School of Music, where they helped train a generation of string quartets, including the Tokyo, Emerson and Concord quartets.

Concert tickets are \$10.50 to \$17.50 for students and \$12.50 to \$20.50 for the general public and are on sale at the Lincoln Hall ticket office, Monday to Friday, 9 a.m. to 1 p.m., tel. 255-5144.

Corson/Mudd Hall.

"Development, Implementation, and Modification of the New York IPM Cabbage Program," Tony Shelton, New York Agricultural Experiment Station, April 16, 4 p.m., Morison Seminar Room, Corson/Mudd Hall.

Epidemiology

"Repeatability of a Calf Management and Disease Questionnaire," Hollis Erb, veterinary medicine, April 13, 12:20 p.m., 216 Martha Van Rensselaer Hall.

Floriculture & Ornamental Horticulture

"History and Use of Turfgrass Worldwide," Marty Petrovic, floriculture and ornamental horticulture, April 9, 12:15 p.m., 404 Plant Science Building.

"The New L.A.R.E. (Landscape Architecture Registration Exam), April 16, 12:15 p.m., 404 Plant Science Building.

Food Science & Technology

"R&D Needs for Economically-Effective and Environmentally-Sound Packaging of Foods in Plastics," James P. Harrington, Technomic Publishing Company, Inc., Lancaster, Pa., April 14, 4 p.m., 204 Stocking Hall.

Fruit & Vegetable Science

"European Pesticide Reduction Efforts: Fact or Fantasy?" Robin Bellinder, April 9, 4:30 p.m., 404 Plant Science Building.

Genetics & Development

"RIP Repeat Induced Point Mutation and DNA Methylation in *Neurospora Crassa*," Eric Selker, University of Oregon, April 13, 4 p.m., Conference Room, Biotechnology Building.

Geological Sciences

"Petrogenesis of Quaternary Alkaline Volcanics in Northern British Columbia," Mary Lou Bevier, Geological Survey of Canada, April 14, 4:30 p.m., 1120 Snee Hall.

International Nutrition

"How to Live Forever by Preventing Both Vascular Disease and Cancer," Richard Peto, University of Oxford, British Principal Investigator, Cornell-China-Oxford Project on Nutrition, Health and Environment, April 16, 4 p.m., N 207 Martha Van Rensselaer.

International Studies in Planning

"Changing Property Relations and Global Reforms," Karen Polenske, Massachusetts Institute of Technology, April 10, 12:25 p.m., 115 Tjaden Hall.

Materials Science & Engineering

"Silicon Oxidation and Photoresist Stripping with Electron Cyclotron Resonance and Downstream Oxygen Plasmas," D.W. Hess Lehigh, April 9, 4:30 p.m., 140 Bard Hall.

"NiAl Alloys For High Temperature Structural Applications," R. Derolia, General Electric, April 16, 4 p.m., 140 Bard Hall.

Microbiology

"Activation of Transcription in Phage Lambda by RNA-binding Proteins," Asis Das, University of Connecticut Health Science, April 9, 4 p.m., 204 Stocking Hall.

Natural Resources

"Fish Nutrition and Water Quality of Hatchery Effluents," George Ketola, U.S. Fish and Wildlife Service, and natural resources, April 9, 3:35 p.m., 304 Fernow Hall.

"Great Lakes Water Levels: Enhancing Resilience," Lino Grima, University of Toronto, Canada, April 14, 12:20 p.m., 304 Fernow Hall.

"Mechanisms of a Crayfish Species Replacement in an Ohio Stream" Martha Mather, University of Massachusetts, April 16, 3:35 p.m., 304 Fernow Hall.

Near Eastern Studies

"Jews and Arabs: Myth, Counter-Myth, History," Mark Cohen, Princeton University, April 16, 4:30 p.m., 374 Rockefeller Hall.

Neurobiology & Behavior

Corey S. Goodman, Howard Hughes Medical Institute, molecular and cell biology, University of California, Berkeley, April 9, 12:30 p.m., Morison Seminar Room, Corson/Mudd Hall.

Operations Research & Industrial Engineering

"Environmental Issues and Their Impact on Manufacturing," Fred C. Hart, Hart Environmental Management, April 9, 4:30 p.m., 155 Olin Hall.

"Total Quality Management: The International Scenario," Daniel Inda, Philip Crosby Associates, April 16, 4:30 p.m., 155 Olin Hall.

Ornithology

"Migration Mysteries, Solved and Unsolved," Jack Connor, Stockton State College, April 13, 7:45 p.m., Laboratory of Ornithology, 159 Sapsucker Woods Road.

Continued on page 8

MUSIC

Department of Music

Vocal chamber music will be performed by 16 singers and four pianists on April 10 at 8:15 p.m. in Barnes Hall. Pianists Daniel Velicer and Sabine Vinck will accompany the singers from the Cornell and local communities performing songs from Johannes Brahms' "Liebeslieder Waltzes" for four voices, opus 52. Part-Songs for mixed voices by Joseph Haydn will be presented by the same singers but accompanied by Tom Beghin and Andrew Willis on the fortepiano.

The Cornell Chamber Orchestra will perform a concert of sacred and secular works for strong orchestra, with Haydn's "Salve Regina" for four solo voices, organ and strings, as the featured work in the program, April 11 at 8:15 p.m. in Barnes Hall. Singers are Judith Kellock, soprano; Kirstin Chavez-Garcia, alto; Cassiano Barbosa, tenor; and Daniel Stowe and John Rowehl, bass. Conductor John Hsu will also play the chamber organ.

Mezzo-soprano Isabelle Ganz, currently on the Solo Recitalist grant from the National Endowment of the Arts, will be the soloist at the Musica Nova concert on April 12 at 4 p.m. in Barnes Hall. The winner of the Classical Vocal Competition at the International Eisteddfod in Wales, Ganz will perform Stravinsky's "Russian Songs," with chamber ensemble, three songs by Mussorgsky; Sallapicola's "Due Liriche di Anacreonte," and songs from Kurt Weill's "Threepenny Opera," "Marie Galante," and others.

Jazz compositions by Matthew Kiroff, a student of Karel Husa and Steven Stucky, will be performed on April 14 at 8:15 p.m. in Barnes Hall. Kiroff, who has been invited to perform his piece "Ombre" at the ISCM World Music Days Warsaw, Poland, this May, will feature instrumentalist Steven Zohn and Beth Kelly, flutes; Kate Stuart, recorder; David Alexander, contra bass and clarinet; Kristina Musser, violin; John Funkhouser, bass; Robert Cowie and David Feurzeig, keyboards; Steven Senders, drum; and Steve Ostwald, percussion. Ryan Oba will recite poetry and soloist Jessica Kostival will dance. Jazz pianists Robert Cowie and Michael James, members of Cornell's Jazz Ensemble, will perform American jazz pieces for duo piano on April 16 at 8:15 p.m. in Barnes Hall.

Bound for Glory

Peter and Lou Berryman, humorists/folksingers from Wisconsin, will perform in three sets on April 12 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.

RELIGION

Sage Chapel

Robert L. Johnson, director, Cornell United Religious Work, will deliver the sermon on April 12, Palm Sunday, at 11 a.m. Music by the Sage Chapel choir, directed by John Hsu, acting choir master, and Zvi Meniker, organist. Sage is a non-sectarian chapel that fosters dialogue and exploration with and among the major faith traditions.

Catholic

Masses: Saturdays, 5 p.m.; Sundays, 9:30 a.m.,

11 a.m., 5 p.m., Anabel Taylor Auditorium. Daily masses, Monday through Friday, 12:20 p.m., Anabel Taylor Hall. Sacrament of Reconciliation by appointment, G-22 Anabel Taylor Hall.

Christian Science

Testimony meeting on Thursdays, 7 p.m., Founders Room, Anabel Taylor Hall.

Episcopal (Anglican)

Sundays, worship and Eucharist, 9:30 a.m., Rev. Gurdon Brewster, chaplain, Anabel Taylor Chapel.

Friends (Quakers)

Sundays at 9:45 a.m. adult discussion; 11 a.m. meeting for worship, Edwards Room, Anabel Taylor Hall.

Jewish

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

Shabbat Services: Friday: Reform, 5:30 p.m., Chapel, Anabel Taylor Hall; Conservative/Egalitarian, 5:30 p.m., Founders Room, Anabel Taylor Hall; Saturday: Orthodox, 9:15 a.m., Edwards Room, Anabel Taylor Hall; Conservative/Egalitarian, 9:45 a.m., Founders Room, Anabel Taylor Hall. Young Israel (call 272-5810 for time).

Korean Church

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

Muslim

Friday prayers, 1 p.m., Founders and Edwards Rooms, Anabel Taylor Hall. Zuhur prayer, 1 p.m., 218 Anabel Taylor Hall. Weekly group discussion/classes, 11:30 a.m. and 12:30 p.m., 218 Anabel Taylor Hall.

Protestant Cooperative Ministry

Sundays, worship at 11 a.m., Anabel Taylor Chapel. Rev. Barbara Heck. Tuesdays, Taize Prayer, 5:30 p.m., Anabel Taylor Chapel. Thursdays, Bible study, 4:30 p.m., G7 Anabel Taylor Hall. Fridays, celebration, 5:30 to 8 p.m., 401 Thurston Ave.

Saty Sai Baba

Group meets Sundays. For information on time and place, call 273-4261 or 533-7172.

Seventh-Day Adventist

Worship, Saturday, 9:30 a.m., Seventh Day Adventist Church, 1219 Trumansburg Road.

Southern Baptist

Richard Foster's "Celebration of Discipline: A Path to Spiritual Growth," Thursday evenings at 8:30 p.m., 316 Anabel Taylor Hall.

Zen Buddhism

Zazen meditation every Tuesday at 7 p.m. and Thursday at 5:15 p.m.; beginner's instruction Thursday at 4:30 p.m. in Anabel Taylor Chapel.

SEMINARS

Anthropology

"Latin American Contexts for Historical Anthropology," Bill Roseberry, New School for Social Research, co-sponsored with Latin American Studies Program, April 10, 3:30 p.m., 366 McGraw Hall.

Applied Mathematics

"Statistical Solutions and Probability Density Functions for Navier-Stokes Equations, and Turbulence," Gal Berkooz, applied mathematics, April 9, 1 p.m., 421 Sage Hall.

"Monte Carlo Solution of the Schrodinger Equation," Malvin H. Kalos, Theory Center, April 10, 4 p.m., 165 Olin Hall.

Astronomy & Space Sciences

"Testing the Big Bang: Probing Creation," David Schramm, University of Chicago, April 9, 4:30 p.m., 105 Space Sciences Building.

"Large-Scale Structure of the Universe in the Northern Sky," Stephane Courteau, April 16, 4:30 p.m., 105 Space Sciences Building.

Biochemistry, Molecular & Cell Biology

"Structure, Assembly and Function of a Photosynthetic Antenna," A.N. Glazer, University of California, Berkeley, April 10, 4 p.m., Large Conference Room, Biotechnology Building.

Biology

"Molecular Genetic Analysis of Growth Cone Guidance: Recognition of Intermediate and Final Targets," Corey S. Goodman, April 9, 12:30 p.m., Morison Seminar Room, Corson/Mudd Hall.

Biophysics

"Some Problems in the General Theories of Protein Structure," Fred Richards, Yale, April 15, 4:30 p.m., 700 Clark Hall.

CaRDI

"The NJ Pinelands Federal/State/Local Partnership," Terry Moore, chairman, New Jersey Pinelands Commission, April 16, 12:15 p.m., 250 Caldwell Hall.

Chemical Engineering

"Computer Simulation Studies of the Temperature Dependence of Domain Growth Kinetics," Kristen Fichorn, Pennsylvania State University, April 14, 4:15 p.m. 165 Olin Hall.

Chemistry

"Synthetic and Conformational Studies on the Calicheamicin Oligosaccharide," Dan Kahne, Princeton University, April 13, 4:40 p.m., 119 Baker Laboratory.

"Structures, Interactions and Dynamics of Nuclear Envelope Proteins," Howard Worman, Mount Sinai Medical Center, April 16, 4:40 p.m., 119 Baker Laboratory.

Ecology & Systematics

"Tanks and Tortoises: Modeling Population Viability of the Desert Tortoise," Daniel Doak, University of California, Santa Cruz, April 10, 4:30 p.m., Morison Seminar Room, Corson/Mudd Hall.

"Evolutionary Genetics and the Conservation of North American Mountain Sheep," Rob R. Ramey, ecology and systematics, April 15, 4:30 p.m., Morison Seminar Room, Corson/Mudd Hall.

Electrical Engineering

"Machine Translation by Statistical Methods," Frederick Jelinek, IBM T.J. Watson Research Center, Yorktown Heights, April 14, 4:30 p.m., 219 Phillips Hall.

Entomology

"Mitochondrial DNA Analysis of Cryptic Species of Anopheline Malaria Vectors in South America," Jan Conn, USDA Research Laboratory, University of Florida, April 9, 4 p.m., Morison Seminar Room,

Thomas lectures on computer graphics

Computer graphics that help design architectural spaces, teach mathematics and science and entertain movie-goers who delight in pictures like last summer's block-buster *Terminator II* will be the subject of a four-part lecture series from Monday, April 13, through Thursday, April 16.

Film clips from *Terminator II*, which just won an Academy Award for best special effects, will be part of a lecture on computer graphic special effects by George Joblove and Douglas Kay.

"Computer Graphics Week," this year's Preston H. Thomas Lectures in the College of Architecture, Art and Planning, will be presented by some of the country's leading experts in computer graphics; but the series is aimed at a general audience without specific technical knowledge of the computers, said Donald P. Greenberg, director of the Program of Computer Graphics. He will open the lecture series on Monday, April 13, at 7:30 p.m. in 115 Tjaden Hall with a lecture on the fundamentals of computer graphics and their use in architectural design.

Computer animation will be the subject of a lecture by Ed Catmull on Tuesday, April 14, at 5 p.m. in Uris Hall auditorium. Catmull, who created the animation software used by Walt Disney Pictures and has been working in the field since the early 1970s, is now president of Pixar, which sells photo-realistic rendering software and commercial animation services.

Jim Blinn, a teacher at the California Institute of Technology, will lecture on animation for the teaching of science on Wednesday, April 15, at 5 p.m. in Uris Hall auditorium. Blinn has produced animated sequences

for "The Mechanical Universe," a 52-part telecourse to teach college-level physics, and he is producing a series on high school math.

Joblove and Kay will discuss special effects for motions pictures, television and other applications on Thursday, April 16, at 7:30 p.m. in Schwartz Auditorium, Rockefeller Hall.

The Preston H. Thomas Lectures are given annually through the Department of Architecture with funds provided since 1976 by Leonard and Ruth Thomas of Sennett, N.Y., in memory of their son, who was a third-year student of architecture at Cornell when he was killed in an automobile accident.

Kite festival this weekend

Just for the fun of it, Cornell students will stage a Kite Flying Festival on campus Saturday, April 11, for all kids in the Ithaca area, ages 6 to 96 and beyond.

There will be prizes donated by local businesses for winners in these categories:

Biggest kite, smallest kite, most aesthetically pleasing kite, most unusual kites on one string, and best of show.

There will be two divisions: ages 6 to 14, and 15 and up.

The event will take place at the Helen Newman Fields on North Campus from noon to 2 p.m.

In case of rain, the Kite Festival will take place the following day, Sunday, April 12.

Participants may register for the event until the day of the event at the following locations:

Greater Ithaca Activities Center, Southside Community Center, Ithaca Youth Bureau, YMCA, Seven Lakes Girl Scout Council, or

the Willard Straight Hall Desk on campus.

Registration also will be taken at festival starting at 11:30 a.m.

The Willard Straight Hall Program Board is sponsoring the event, with some funding provided by the Cornell Student Assembly.

Vet open house set for April 11

Visitors will get a behind-the-scenes look at health care for animals on Saturday, April 11, from 9 a.m. to 4 p.m. during the 1992 Open House of the College of Veterinary Medicine.

Dozens of demonstrations and hands-on exhibits designed by students of the state's only veterinary college focus on pets, livestock and exotic animals. Self-guided tours of college facilities show the latest techniques in fields such as medical diagnosis and surgery.

"The open house is actually a sampling of the subjects covered in the four-year program leading to the doctor of veterinary medicine degree," said Suzanne Petrillo, one of the student organizers of the event. "We're showing off what we've learned about emergency first aid and nutrition for pets, care of newborn as well as aging animals, the dangers of poisonous plants and other hazards to pets. Visitors can learn to tell the age of animals by their teeth, guess their weight or find the location of internal organs on the 'painted' horse and cows."

Among the technologies on display will be endoscopy, ultrasound, radiology, cardiology and clinical and postmortem pathology.

The open house is scheduled rain or shine. The only visitors not welcome are other pets,

which could be disturbing to those in the open house. Free parking is available in the "B" lot, east of the college on Route 366 between Varna and Ithaca.

Concrete canoe races on campus

Beebe Lake will be dotted with concrete canoes on Saturday, April 11, from 9:30 a.m. to 4 p.m. as college engineering students from upstate New York vie to represent the region in a national race.

The concrete canoe race—held nationally in June—is a function of the student chapters of the American Society of Civil Engineers. Students from eight colleges from upstate New York will descend on Beebe Lake for a chance to represent New York at the national event, as they gather on campus for a regional conference.

The start and finish line for the canoe races will be near the island at the east end of Beebe Lake. Spectators may watch from the trail surround the lake; parking is available in university lots accessible from Forest Home Drive.

Cornell's effort is headed by Karen Gottesfeld, a senior engineering student and president of the Cornell student chapter. Faculty adviser for the Cornell student chapter is Mary Sansalone, associate professor of civil and environmental engineering.

Also, engineering undergraduate students will be building bridges in Lynah Rink for the steel bridge competition on Saturday from 9 a.m. to 5 p.m. Students must design, construct and load a 20-foot bridge to withstand 2,500 pounds. Adviser for the Cornell team is Teoman Pekoz, professor of civil and environmental engineering.

CALENDAR

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Peace Studies Program

"Conventional Arms Control: Utopian Dream or Pragmatic Reality?" Stephanie Neuman, Institute on War and Peace Studies, April 9, 12:15 p.m., G-08 Uris Hall.

Pharmacology

"Platelet Derived Growth Factor and Lung Injury," Jim Fabisiak, University of Pittsburgh, April 13, 4:30 p.m., G-3 Vet Research Tower.

Physiology & Anatomy

"Possible Role for Tumor Suppressor Gene in Control of Cell Differentiation," Andrew Yen, April 14, 4:30 p.m., G-3 Vet Research Tower.

Plant Biology

"Actin in Vascular Plants," John Andersland, plant biology, April 10, 11:15 p.m., 404 Plant Science Building.

Plant Breeding & Biometry

"Progress Toward Cloning Matching Resistance and Avirulence Genes from Lettuce Downy Mildew," Richard Michelmore, University of California, Davis, co-sponsored by the Biotechnology Institute and Vegetable Breeding Institute, April 14, 12:20 p.m., 135 Emerson Hall.

Plant Pathology

"Structure and Biology of *Cuscuta* (the Dodder)," Ole B. Lysheide, April 14, 4:30 p.m. 404 Plant Science Building.

"Resistance in Plants Transformed with a Non-Structural Virus Gene Sequence," John Carr, plant pathology, April 15, 3 p.m., A133 Barton Laboratory, NYSES, Geneva.

Psychology

Title to be announced, Susan Carey, Massachusetts Institute of Technology, sponsored by cognitive studies, April 10, 3:30 p.m., 204 Uris Hall.

Rural Sociology

"Action vs. Explanation in Conserving Biodiversity," (A Reanalysis of the Information in the 1992 World Bank Report on "People and Parks"), Frank Young, April 10, 3:30 p.m., 32 Warren Hall.

Slavic & East European Studies

"Economic Reform and Stabilization in Russia," Stanley Fisher, Massachusetts Institute of Technology and former vice president of the World Bank, April 10, 4 p.m., G08 Uris Hall.

Social Research for Social Change Program

"Participatory Action Research in an Industrial Setting," Ann Martin, Sally Klingel and Pat Semanke (PEWS), April 13, 4 p.m., 100 Savage Hall.

Soil, Crop & Atmospheric Sciences

"Bonding and Oxidation of Chlorophenols at Surfaces of Manganese Oxides," Ljerka Ukrainczyk, soil, crop and atmospheric sciences, April 14, 4 p.m., 135 Emerson Hall.

South Asia Program

"Representing the Landscape: Problems of Reading the Intertextual," James Duncan, Syracuse University, April 9, 12:15 p.m., 153 Uris Hall.

Stability, Transition & Turbulence

"Multigrid Solutions of the Navier-Stokes Equations," R. Varma, April 14, 12:30 p.m., 178 Theory Center.

Statistics

"Semiparametric Transform-Both-Sides Regression Models," Nai-Syin Wang, grad student, statistics, April 15, 3:30 p.m., 100 Caldwell Hall.

Textiles & Apparel

"Basofil: New Fire-Retardant Fiber," Michael Kent, BASF, April 9, 12:20 p.m., 317 Van Rensselaer Hall.

SPORTS

(Home games only)

Friday, 4/10

Men's Tennis, Yale, 2 p.m.

Saturday, 4/11

Men's Lightweight Crew, Pennsylvania and Harvard

Women's Crew, Princeton and Radcliffe
Women's Lacrosse, Yale, 1 p.m.
Men's Tennis, Brown, 1 p.m.

Sunday, 4/12

Women's Lacrosse, New Hampshire, 1 p.m.
Men's Jr. Varsity Lacrosse, Corning C.C., 2 p.m.
Women's Jr. Varsity Lacrosse, RIT, 3:30 p.m.

Wednesday, 4/15

Women's Lacrosse, Colgate, 3:30 p.m.
Men's Lacrosse, Syracuse, 7 p.m.

SYMPOSIUMS

Architecture, Art & Planning

"The Actual American City: Cultural Perspectives on Architecture, Art and Planning," sponsored by the Minority Organization of Architecture, Art and Planning, April 10 and 11. This year's conference will examine the changing demographics of American cities and its effect on architecture, art and planning. Speakers will include Richard Dozier of Florida A&M University, who will speak on the history of African-Americans in architecture; Kenneth Jordan of Savannah State College, alternative approaches to local economic development in declining American cities; Teofilo Victoria of the University of Miami, the multicultural character of the city and of architecture in America; Joyce Whitley of Whitley and Whitley Consulting Firm in Cleveland, on the social obligations of minority professionals in planning; and Melvin Edwards of Rutgers University, on the effects of art on architecture from a cultural perspective. Events are planned for the Hartell Gallery and 115 Tjaden Hall. For further information and a schedule of events, contact Raymond Dalton in B-1 West Sibley, 255-3997.

Environmental Communication

"Motivating Environmentally Sound Action: Communicating Environmental Stewardship," a panel discussion, sponsored by the departments of natural resources and communication and the Center for the Environment, April 10, 2:30 to 4 p.m., 135 Emerson Hall. Participants will include Rick Booney; Barbara Hotchkiss;

Susan LaBarr; Cliff Scherer; and Barbara Knuth.

Industrial & Labor Relations

Secretaries' Day Symposium
"Work and Home Issues for Office Professionals in the 1990s," a symposium celebrating Secretaries' Day, April 22, 10 a.m. to 2 p.m., in the Conference Room, Biotechnology Building. Panelists will discuss working in new ways (job sharing, part-time & flex-time), organizing child care, managing senior care, being single and continuing education and new directions for office professions. Preregistration is required to attend. Reservations can be made either by calling 255-4462 or by forwarding a preregistration form to Deb McKane, 209 ILR Conference Center by April 15.

THEATER

Department of Theatre Arts

The National Shakespeare Company will present *The Taming of the Shrew* in Bailey Hall on Sunday, April 12, at 8 p.m. Tickets are available at the Willard Straight box office, which is open Monday through Friday, from 10 a.m. to 5 p.m., and, if not sold out, at the Bailey Hall box office about one hour before the show. Ticket prices are \$7.50 for the general public and \$6.50 for people with a Cornell identification. Ticket information is available by calling the Willard Straight box office at 255-3430.

Classics

Euripides' *Orestes*, a play reading presented by the Cornell Ancient Drama Group on April 10 and April 11 at 8 p.m. in Kaufmann Auditorium, Goldwin Smith Hall.

MISC.

Watermargin Cooperative

A free workshop with Japanese calligraphy master Sadako Taylor will be held on April 11 from 2 to 4 p.m. in 103 McGraw Place. No previous experience is required. Please call 273-0446 to reserve a space.

Lawyer, soldier, editor agree: War coverage was weak

By Linda Grace-Kobas

From the moment the first troops were committed to Operation Desert Storm, the press and military officials began their classic skirmish — a struggle first joined during the Civil War — between the First Amendment rights of the press and the military's need for security about battle operations.

Three experts, a general, a newspaper editor and a law professor, last week debated the actions of the media during the Gulf War for this year's Daniel W. Kops Freedom of the Press Fellowship Program sponsored by the College of Arts and Sciences. While agreeing, for different reasons, that the news coverage left much to be desired, the three sparred over questions of what caused the media's failures and whether there is hope that the media will perform more aggressively and independently during the next war.

"The military controlled and defined the coverage of this war" for political, rather than military, reasons, said Tim J. McGuire, executive editor of the Minneapolis-St. Paul Star Tribune.

President Bush and Saddam Hussein agreed on one point, McGuire said: that the American public did not have the stomach for a long and bloody war. So the press was fed sanitized images of high-tech destruction of military targets.

"Did you see anybody die in this war?"

McGuire asked. "This was a well-briefed war, not a well-covered war."

Lt. Gen. Richard G. Trefry, former inspector general of the Army who served as military assistant to Bush during the Gulf War, agreed that political strategies overtook military concerns in the way the media were handled. But, he said, "I want to use the press as a tool and as a weapon" because "whatever we do we must have the support of the American people."

"A radio or telephone [in a combat zone] is a weapon," he noted, "and cameras are very, very tricky."

The general joined McGuire in criticizing the pool reporting system during the Gulf War, but for a different reason: "It is a hell of a lot of hard work, an administrative nightmare. It's never pleasant to have a lot of people yapping at you," Trefry said. "It's like being treed by chihuahuas."

McGuire, who is chair of the American Society of Newspaper Editor's Press, Bar and Public Affairs Committee, expressed confidence that a new set of guidelines negotiated by ASNE and the Pentagon will improve future coverage by eliminating press pools and outlining the roles of military public affairs officers and journalists. "We moved to establish better dialogue with the military," he explained, though some critics might think that that very dialogue is too much of a compromise for the press.

Cornell law Professor Steven H. Shiffrin, author of *The First Amendment: Democracy and Romance*, was strongly critical of the role of the media, and did not share McGuire's optimism that the media will present better coverage of future conflicts. Emphasizing the media's constitutional obligation to serve as "a powerful antidote to any abuse of powers by elected officials," he deplored their failure to provide critical reporting of the causes of the war and the political agenda of the government.

"The press is also a business and a culture," he stated, and these structural conditions "interfered with its ability to act as a critic." He condemned the business mentality that prompted CBS, in order to encourage advertisers to air commercials during war coverage, to use patriotic lead-ins featuring Gulf soldiers as introductions to commercials, leading to the creation of patriotic advertising.

Even if changes are made in the military's regulation of reporters on the battlefield, Shiffrin said he doubts that comprehensive coverage of future wars will improve, because that coverage goes beyond what happens on the battlefield. Once the Democrats in Congress jumped on the war bandwagon with Republicans, "it created a total cheerleader effect in the media," Shiffrin noted, citing Walter Cronkite as announcing at one point, "We knocked one of their scuds out of

the sky." The media swallowed the administration line that U.S. bombs were so "smart" that any civilian casualties in Iraq happened because, as Tom Brokaw said, "Saddam Hussein put the innocents in harm's way."

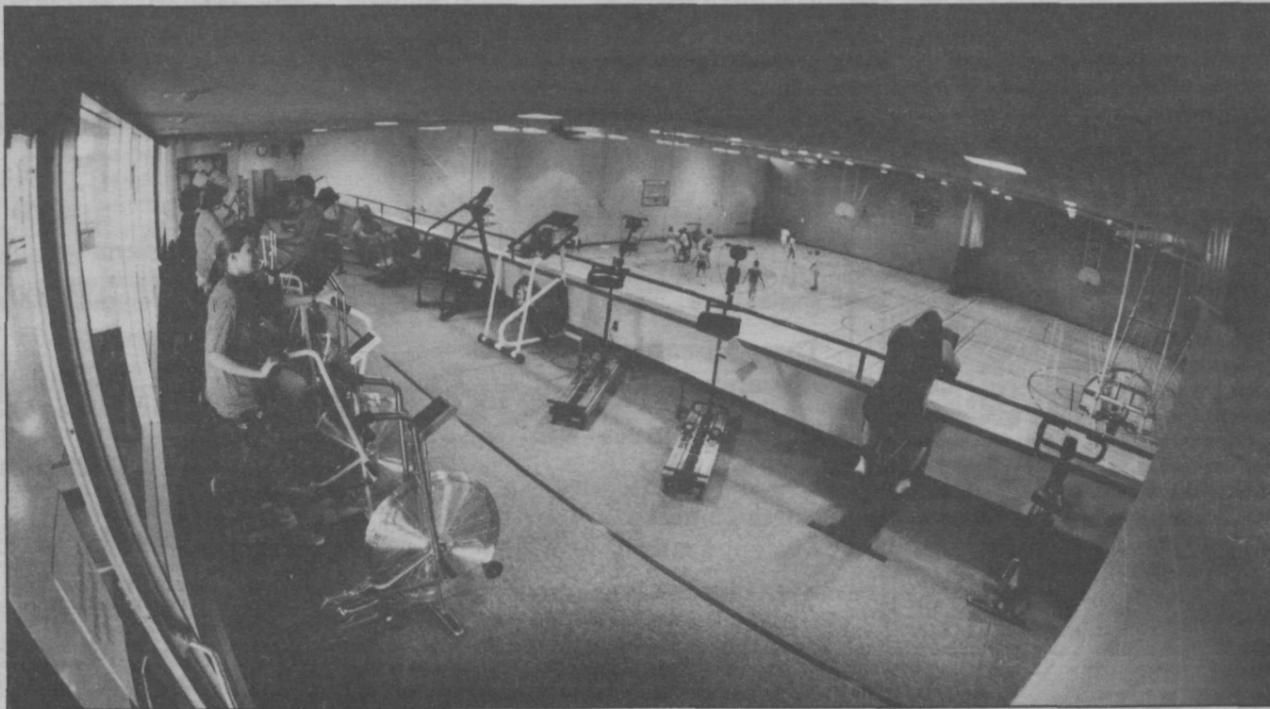
The causes of the war were never examined by the media once the fighting started, Shiffrin said, noting that media coverage was dedicated to battle strategy. He reviewed 878 on-air sources, used by the television networks during the war. Only one person interviewed was from a peace organization, a constituency outnumbered by the seven Super Bowl football players interviewed to encourage the troops.

"We need more I.F. Stones," was Shiffrin's message. "If we had more critical reporting, we'd be a lot better off."

On one point all participants agreed with Joel H. Silbey, the President White Professor of History who moderated the panel: "We've only begun to scratch the surface of these issues."

In attendance at the panel discussion were Daniel and Nancy Kops. He is a 1939 graduate of Cornell and former editor of the *Cornell Daily Sun* who has had a distinguished career in print and broadcast media. He said that the First Amendment issues discussed in the Kops Forums are important for Americans and noted in an interview, "My being editor of an uncensored paper here at Cornell gave me a real respect for the freedom of the press."

No couch potatoes



Peter Morenus/University Photography

Sports spectators at the Helen Newman Hall gymnasium get a workout, too, in the new Wellness Program fitness facility. The health program for faculty and staff had used workout space in a sub-basement of the building until a recent move to the third-floor balcony over the gymnasium.

Cancer fighter found in milk

Ordinary cow's milk contains a growth inhibitor that significantly deters the proliferation of human breast cancer cells in laboratory tests, Cornell scientists say.

This finding, coupled with a cow's tendency not to get breast cancer, suggests that milk may contain a tumor suppressant, said Ronald Gorewit, professor of animal science.

"Although it would be premature to conclude that this factor is a tumor suppressor in humans, the evidence to date suggests it has potential," he said. "It might have some benefit, and we are drinking it all the time."

Gorewit emphasized that nothing is known about the effect of this substance on breast cancer patients and no human studies are being done at present.

The growth inhibitor — mammary-derived growth inhibitor (MDGI) — is present at the microgram to milligram (millionths to thousandths of a gram) level in a glass of milk, said Ioannis Politis, a research associate working with Gorewit.

The growth inhibitor plays an important role in bovine lactation and diminishes by 50 percent the proliferation of human breast cancer cells and normal bovine mammary cells in laboratory cultures, he said.

Outside the bovine mammary gland, the only other known location for MDGI is in the bovine heart, where its role is unknown, Gorewit added.

Maybe we can go back to the future, Thorne suggests

By Larry Bernard

Time travel through space may not be possible under the known laws of physics, although the general theory of relativity should permit it, a leading theoretical astrophysicist said on campus last week.

The potential to construct a time machine using wormholes — theoretical tunnels that connect black holes to another universe — is not beyond the known laws of gravity, Kip S. Thorne said in his final A.D. White Professor-at-Large Lecture on April 2. Thorne, the R.P. Feynman Professor of Theoretical Physics at the California Institute of Technology, delivered a talk on "Black Holes, Time Machines and Singularities" before a packed Schwartz Auditorium audience.

"I can go down into a wormhole on April 2, 1992, and come out one hour later. But to you, it's 10 years later, in 2002," said Thorne, illustrating the concept with basketball-size rubber balls and the help of his wife. "The wormhole has become a time machine."

That concept is unsettling to Stephen Hawking, the British astrophysicist and leading expert in black holes, who, according to Thorne, says that "the laws of physics will always protect the universe against time machines."

That could be true, Thorne acknowledged. "We agree there is one promising mechanism in which he would be right," Thorne said. "Vacuum fluctuations in quantum fields destroy every time-machine the moment it becomes operational." Vacuum fluctuation refers to the space between wormholes where the energy would become so great and intense, the wormholes would self-destruct.

Thorne, an expert in gravitational waves, described his version of a black hole as a compact region with so intense a gravitational pull that not even light can escape. If a black hole the size of a basketball were at the center of the Earth, it would increase the gravitational pull by a factor of about 30, and we would all go crashing into it, including the planet itself. For all that, it would only increase the diameter of such a black hole by about 1 millimeter, Thorne said.

In deep space, signals still could escape from a black hole if a person were near its surface. But once past a point called the horizon, there is no going back, Thorne said. Past the horizon, one would encounter a tidal field, similar to the tidal pull exerted on Earth by the moon. A body would be squeezed and pulled and pummeled about — a "rather unpleasant" experience, he said.

"We're pretty sure that's what's happen-

ing when a black hole is young," he said. In this "Mixmaster" tidal field, "even elementary particles get pummeled beyond recognition, before they hit the singularity."

A singularity is a theoretical point where the gravity is so intense that matter ceases to exist, perhaps at the core of a black hole. And if matter ceases, so does time as we know it.

If that Mixmaster tidal field could have another fraction of a second, a person would be stretched to infinity. "But," Thorne said, "you don't have another fraction of a second. As you hit the edge of a singularity, time comes to an end. This is a rather startling prediction. Space and time cease to exist."

He added, "We don't understand well the laws governing the structure of a singularity. With space and time gone, matter can no longer exist. Whatever's going on in a singularity is relatively alien to physicists."

In our galaxy, there is evidence of a typical black hole the size of Washington, D.C., with a gravity 10 times that of the sun, and there is evidence of a black hole elsewhere with 1 billion times the gravity of the sun. The problem is, Thorne said, "a black hole is so darned small and you can't get any radiation out to tell us what's going on."

Cal Tech is embarking on an ambitious search throughout the universe for pairs of

black holes — a smaller black hole in orbit around a larger one, eventually to be swallowed by the larger.

"We are going to look at them directly with the same stuff they are made of, curved space gravitational radiation, not electromagnetic waves," he said. Two black holes spinning around create ripples in space — gravity waves — that will propagate toward Earth, he said.

The instrument, a Laser Interferometer Gravitational-Wave Observatory, or LIGO, will begin operating in 1998 to monitor the ripples of the curvature in space from this black hole dance. Once a smaller black hole is in the grasp of the larger, the LIGO will record its three-minute death. In some cases, with large black holes, the dance will take only fractions of a second, Thorne said.

"We want to construct a map of curved space around a black hole to see if it agrees with Einstein's theory of general relativity," he said. "We expect to learn completely new things about black holes as theorists are not clever enough to detect."

He said he was "pretty sure" he would see several of these per year when the instrument is at its peak, since there may be as many as 10 to the 100th power of them happening per day throughout the universe.

State budget includes base cut of \$5.2 million to Cornell

The 1992-93 state budget that was passed last week included a base-budget cut of about \$5.2 million for the statutory units and the full loss of more than \$500,000 in funding for some long-standing special programs. These losses were offset by an increase of about \$1.9 million toward the most critical infla-

The details of how Cornell will implement some of these cuts have yet to be decided.

tionary cost increases.

Cornell's general-purpose budget was also cut by \$2.5 million. Some \$850,000 was due to the loss of the state match for federal work-study funds; and \$1.65 million was Cornell's share of a \$33.4 million statewide cut in Bundy Aid, funds given independent univer-

sities for each degree they confer. The Tuition Assistance Program, need-based aid going directly to students, returned payment schedules to 1989 levels for incoming students starting next year.

Total state support of approximately \$117 million was at about the levels anticipated, and Stephen Philip Johnson, Cornell's executive director of government affairs, said that Assemblyman Marty Luster and Senator James Seward "deserve Cornell's appreciation for persistent and general support."

The details of how Cornell will implement some of these cuts have yet to be decided. There has been discussion about the chance that the legislature itself may make some funding adjustments in the coming months.

The accompanying tables show program funding for last year and for the state fiscal year that started April 1, with indications (in some areas) of the difference between Gov. Cuomo's Executive Budget proposal of January and the final budget of last week.

Special program additions by Legislature

	1991-92	1992-93
Apprenticeship	\$139,000	\$0
Baruch College/ I.L.R. Master's Program	64,000	0
Labor Studies	231,000	300,000
Programs in Employment and Workplace Systems	154,000	0
Fifth-Year Veterinary Support	154,000	0
Library Automation	77,000	0

Base budgets

(In millions of dollars)

	Permanent base	Reduced, mid-year level
Statutory Colleges Total		
1991-92	\$113.7	\$111.1
1992-93	110.3	
Agriculture and Life Sciences		
1991-92	39.8	38.8
1992-93	37.7	
Human Ecology		
1991-92	8.2	8.0
1992-93	7.8	
Industrial and Labor Relations		
1991-92	9.1	8.9
1992-93	8.7	
Veterinary Medicine		
1991-92	15.6	15.2
1992-93	14.8	
Geneva		
1991-92	10.0	9.8
1992-93	9.6	
General Services		
1991-92	30.9	30.3
1992-93	31.9	

Selected programs operated under contract with state agencies

(With legislative increases indicated)

	1991-92	1992-93 Executive Budget	1992-93 Final
Integrated Pest Management	\$900,000	\$810,000	\$860,000
Mastitis Lab	1,078,000	847,000	1,001,000
Diagnostic Lab	1,834,000	1,422,000	1,725,000
Agriculture in the Classroom	60,000	35,000	60,000
Golden Nematode Research	50,000	30,000	50,000
Farm Family Assistance	150,000	75,000	125,000
Three-Diseases Research	328,000	0	300,000
Water Resources Institute	77,000	0	96,000
North Country Agricultural Development	270,000	0	350,000

General Motors cites student volunteers

By David L. Stewart

Three students have been named recipients of 1992 GM Volunteer Spirit Awards for their campus and community volunteer activities.

Anne Ashton Beale, Ian Jon Kutner and Sarah Marion Stone were honored during a campus ceremony April 1. Their awards include a plaque and five shares each of General Motors common stock.

E. Michael Mutchler, vice president and group executive for GM's Chevrolet-Pontiac-Canada group, and Larry I. Palmer, vice president for academic programs and campus affairs, presented the awards. The GM program cites today's campus volunteer as "tomorrow's active and involved citizen and community leader."

In presenting the awards, Mutchler said: "General Motors has long realized that the student volunteer is a major example of what the 'going to college' learning experience is all about. Realizing that scholars and athletes are widely rewarded for their efforts, GM in turn wishes to acknowledge those young people who, in the past, might have gone unnoticed while quietly spending their time contributing to the campus, community, and to helping others."

Beale, a junior majoring in social work in the College of Human Ecology, has been involved in several community agencies, including as a respite worker and coordinator at the Family Support Services Program and a friend at the Aurora Street Friends, both programs of the Mental Health Association in Tompkins County; an intern at the Homeless

Youth Outreach Program in Ithaca; and a crisis-line worker and advocate at the Tompkins County Task Force for Battered Women. Beale also organized a self-help group for adult survivors of physical and emotional abuse during childhood. She is a 1988 graduate of Choate Rosemary Hall in Wallingford, Conn.

Kutner, a dual major studying government and Fin-de-Siècle Culture in America and France (in the honors program) in the College of Arts and Sciences, is president of the Class of 1992. He is also lecture chair of the Cornell University Program Board, which this academic year has brought to campus diverse

speakers such as Maya Angelou, Allan Bloom and the Rev. Jesse Jackson. He is a 1988 graduate of Hewlett High School, Hewlett, N.Y.

Stone, a senior in the College of Agriculture and Life Sciences majoring in floriculture and ornamental horticulture, is co-president of Habitat for Humanity at Cornell. She has spent spring breaks and summer vacations working on Habitat projects in several states, including projects in the Ithaca area. Stone is also active in the Protestant Cooperative Ministry, serving on its board and development committee. She is a 1988 graduate of Broughton High School in Raleigh, N.C.



Charles Harrington/University Photography

E. Michael Mutchler (left), vice president and group executive for GM's Chevrolet-Pontiac-Canada group, and Larry I. Palmer (right), vice president for academic programs and campus affairs, with student volunteers (from left) Anne Beale, Ian Kutner and Sarah Stone.

New York leads in speciality foods

New York leads the nation in the number of specialty markets, and the state's supermarkets have more product variety, space, productivity and service per square foot than the national average, says a Cornell study.

New York has more than 6,100 specialty food stores — twice as many as the national average and more than any other state — and the state's supermarkets typically carry some 24,000 products, 45 percent more products than supermarkets elsewhere of comparable size, Cornell food market specialists found.

The study establishes a food industry database and is the first in a series of annual studies to examine the nature of and trends in the state's food industry, particularly at the retail level, said Edward McLaughlin of the Food Industry Management Program in the Department of Agricultural Economics.

The study was sponsored by Kraft General Foods for the New York State Food Merchants Association.

Among the other findings in the report, *State of the New York Food Industry*, are:

- Only 16 percent of the state's food markets are supermarkets; 84 percent are either small groceries (36 percent) or specialty stores (48 percent). Nationally, 22 percent of food stores are supermarkets, 50 percent are groceries, and 28 percent specialty stores.

- As a result, New Yorkers spend an average \$126 per capita per year in specialty food stores — almost twice as much as the national average of \$67.

- Of the 12,395 food stores in New York state, more than half are located in the five boroughs of New York City.

Judge draws on Human Ecology lessons when deciding between right and wrong

By Susan Lang

While other nine-year old girls were collecting movie-star posters and teen-age magazines, Leah J. Sears was sending away for college catalogs from prestigious universities, out of curiosity.

"Flipping through them, I remember being shocked, surprised and intrigued that all I saw were white men — all white men," said Leah Sears-Collins. "I knew then that I wanted to be a lawyer, although I knew that as a black female it was not the mainstream thing to do."

By age 27, Sears-Collins was not only a lawyer with a juris

CORNELL
People

doctorate but a judge for Atlanta's traffic court. By 32, the Honorable Leah Sears-Collins broke records by being elected to the Fulton County (Ga.) Superior Court, making her the first woman on the Fulton County Superior Court, the first black woman to serve on any superior court in Georgia, and the youngest superior court judge in Georgia.

Sears-Collins spent her childhood on the move. Her father was a colonel in the U.S. Armed Forces and took his family around the world and all over the country. In her travels, Sears-Collins believes that she "learned tolerance for different people and different cultures. I don't feel myopic in terms of how I look at the different things people do."

While both her brothers went on to Annapolis, following their father into the armed services as "one of the only ways black Americans could get ahead," Sears-Collins said she was eager to get out into the world "and take a big plunge. I wanted to learn as much about different things as I could."

When she flipped through Cornell's catalog, she was hooked. "I wanted a very large liberal college with a smorgasbord of offerings, and Cornell was it," Sears-Collins recalled. "Cornell had everything — from the basics to the esoteric to all kinds of weird extra-curricular activities. It was mind-expanding here — very wonderful. I wouldn't change any of it had I to do it over again."

Over the years, Sears-Collins has come to treasure her major in human development and family studies in the College of Human Ecology, because it "encompassed so many disciplines and required me to look at so many issues. And it's had lasting impression on me because I not only view my cases in a broad perspective, reading many sources that are not law-related before making a decision, but I am also very relationships-oriented," Sears-Collins said. "I tend to give relationships a high priority when making my decisions."

"Just a few months ago, for example, I had to decide a very controversial case in which a children's hospital petitioned the court to terminate life support of a 13-year old girl. Her father wanted to continue all medical efforts to prolong life, while her mother intermittently wanted to terminate them. I found myself going back to my old books from human development to look at the broader philosophical and religious issues, such as how do we as human beings live? What is life all about? How should we act as human beings?"

Sears-Collins decided to continue the life support systems. The girl died six days later.

After Cornell, Sears-Collins spent a year as a courthouse reporter in Columbus, Georgia ("Now I know what reporters covering my beat go through.") and then went to Emory University School of Law, graduating in the top 15 percent of her class.

She had been practicing as a business lawyer with one of Atlanta's largest law firms for several years when, unexpectedly, Atlanta Mayor Andrew Young asked her to sit on the bench part time in Atlanta's traffic court.

"I discovered that I liked the court process better than private practice, even though traffic court was not all that stimulating, relatively speaking," Sears-Collins said. By the time she was 30, she was on the bench full time and at 32, she won the election to the highest trial court in Georgia.

Every day, Sears-Collins holds the destiny of people's lives in her hands in civil, domestic, felony and misdemeanor criminal cases. "It's very stressful, and I agonize, as I know all judges do, over many decisions. I make them very carefully, for I know I have tremendous responsibility involving perfectly sane human beings struggling with monumental life issues."

At the same time, Sears-Collins struggles with the more mundane life issues of balancing her roles as judge with being a wife to a South Bell executive and mother of two children, ages 4 and 8. "I still haven't been able to skin that cat yet — working full time and raising children — not to my satisfac-



Leah Sears-Collins

tion. It requires a lot of pulling together, and I haven't mastered it yet."

In addition, she finds herself constantly pulled by the demands of being a black female lawyer and judge. "I find it astounding how, as a minority, the community commitments expected of you are endless. I find myself divided among so many causes — as a judge, a woman, a black, a lawyer, and then as a female judge, a black woman, and so on."

What's ahead for the Honorable Sears-Collins? "At some point, I'd like to move on to the appellate court but now, for the first time, I really, really love my job." And besides, Sears-Collins has her work cut out for this spring — not only is her docket full, but her re-election campaign is coming up in June.

M.B.A. students to seek success in depressed real estate market

By Sam Segal

For spring graduates, job prospects are bleak — doubly so for M.B.A.s, who face shrinking corporations and rising doubt about the need for their degrees.

So the exuberance of David Greenhouse and Paul Morris is a little startling. They can't wait to collect their M.B.A.s from the Johnson Graduate School of Management and launch their entrepreneurial partnership. Even more surprising is their enterprise — real estate, whose deep slump has been a major factor in this recession.

"This is actually the best time to start a business," says Greenhouse, a University of Pennsylvania alumnus who grew up in Latham, N.Y., and spent most of his post-college working time in food marketing in the United States and England. He calls it "blindingly obvious" that if you can get a business launched during a recession, hiring, borrowing and other costs are relatively low.

It also won't hurt that they're targeting the "college town" around the University of Cincinnati, where the student enrollment of 38,000 is stable, there are no new building projects, and there are many run-down frame houses within a few blocks of campus.

"Investors, if they're lucky, can get 8 to 10 percent these days," says Morris, who grew up in Youngstown, Ohio, and attended the University of Cincinnati, where he learned the

"This is actually the best time to start a business," says David Greenhouse. He calls it 'blindingly obvious' that if you can get a business launched during a recession, hiring, borrowing and other costs are relatively low.

ropes of their future business. "David and I are projecting returns of at least 20 percent."

Over seven years, according to their plan, they will buy, fix, rent and eventually sell 160 units. A building usually has one to three units — a "unit" being defined not by square feet or number of rooms or tenants but by its having one lease and separate utilities.

Morris bought, fixed and eventually sold six buildings during his undergraduate years and, with the \$100,000 profit, paid for his M.B.A. education.

The two, who decided on partnership last fall, were brought together by the course of David BenDaniel, the Don and Margi Berens Professor of Entrepreneurship in the Johnson School.

Morris took the course last spring and wrote a 90-page business plan that called for raising \$500,000 to start a

business of student rental housing. Greenhouse took the course in the fall and adopted the same business plan, which was refined and shortened.

"When I came to the Johnson School, I gave some thought to Wall Street, though I had also considered going on my own into real estate," said Morris.

BenDaniel's course, which brings to class alumni who discuss their own entrepreneurial challenges, made up his mind.

"The usual business school speaker discusses life in big corporations. In this course, the guys would do it all themselves and tell you that you could do it, too," Morris says.

BenDaniel also introduced him to Patrick Gerschel, an alumnus and a real estate investor who gave him a summer job and said to him: "Do it now. You can raise the money. You can do it."

It is the prospect of \$580,000 in outside capital that distinguishes their business from the one-at-a-time operation

that Morris himself ran as an undergraduate.

It will allow them to own, fix and operate lots of units at once — peaking at 30 after three years.

The investors are told they will get no return for two years but will get back all their principal before Morris and Greenhouse start taking anything more than \$30,000 salaries from the business.

Their average purchase — costing about \$25,000 or \$30,000 a unit — will be a run-down frame house in which an average unit's monthly rent will be \$250 to \$300. After investing \$10,000 to \$15,000 per unit, they expect rentals to rise to about \$750 or \$1,000, with a \$1,000 unit likely to be shared by two or three students. The gross profit once a remodeled building is sold should average \$20,000 a unit, they say.

"The greatest return," says Greenhouse, "is in taking other peoples' headaches, properties no one wants. It's really the opposite of being a slumlord."



Peter Morenus/University Photography

Johnson Graduate School of Management students David Greenhouse (left) and Paul Morris, hoping to find success in a "college town" area near the University of Cincinnati, stand in Ithaca's Collegetown neighborhood.

Pentagon *continued from page 1*

its armed forces to their smallest level since the eve of the Korean War in 1950. "Our defense industries will eliminate as many jobs [as does the Pentagon]," he said.

Wolfowitz said that the United States should support economic reforms in Russia, building new relations with Moscow and the former Soviet republics. "The new democratic lead-



Peter Morenus/University Photography
Paul D. Wolfowitz

ers in East Europe are among the strongest supporters of a U.S. presence in Europe," he said, adding: "Today's Russian leaders are finding political wisdom in *The Federalist Papers*."

He declared that "not all the effects of the Cold War were bad," citing as positive devel-

opments the integration of Germany and Japan into the Western bloc, development of the North Atlantic Treaty Organization and the General Agreement on Tariffs and Trade, and easing of Franco-German relations.

Turning to Asia, Wolfowitz said the United States has taken steps toward normalizing relations with Vietnam, but Hanoi is holding back information on Americans possibly still missing from the Vietnam War. As to Cambodia, there is "too much tragedy in its background to be optimistic."

On U.S. military presence in Asia: "It is universal throughout Asia that they want the United States to remain, not because they love us, but because they fear a vacuum that someone would fill — China, Japan, but not now Russia. We will reduce our forces in Korea and thin out in Japan. We would like to have stayed in the Philippines, but that was not our choice."

Wolfowitz, who grew up in Ithaca and earned a political science Ph.D. at the University of Chicago, suggested that no student should graduate from college today without reading certain books, including *The Diary of Anne Frank*, and John Hershey's *Hiroshima and The Wall*.

Smiling, relaxed and informal throughout, Wolfowitz shot out a number of humorous comments: "I was in Moscow last month, and it's easier to get there from Washington than to reach Ithaca."

Another: "When I was the ambassador to Indonesia, the Indonesians would say, 'You are so young to be an ambassador,' as though it were a compliment. At the same time Mike Mansfield, who was in his 80s, was the ambassador to Tokyo. I think Indonesia believed it had been cheated."

LETTER

J.A. clarifies office's function

To the Editor:

In light of recent articles and discussions, the following information is intended to clear up some of the common misconceptions concerning the Office of the Judicial Administrator.

The Office of the Judicial Administrator is independent and the judicial administrator is solely responsible for the office. The University Assembly participates in the selection of slates of nominees for the position of judicial administrator. Following the interview process, the judicial administrator is appointed by the president with the concurrence of the University Assembly. The term of the judicial administrator is two years and the judicial administrator is subject to removal during the term of office only by action of the Board of Trustees.

The Office of the Judicial Administrator investigates complaints that allege violations of the Campus Code of Conduct. The office receives complaints from numerous sources, including but not limited to: the Department of Public Safety, the Department of Residence Life, University Dining, the Campus Store or individuals. In cases in which the judicial administrator initiates an investigation, the university community is designated

as the complainant.

The office is investigating an alleged violation of the Campus Code that occurred March 5 in the Memorial Room at Willard Strait Hall. The judicial administrator began the investigation upon receiving information about an alleged violation from the Department of Public Safety. Part of that investigation includes contacting community members and non-community members who were present during the events. If anyone not yet contacted by our office has information about the events in question, please feel free to call the office at 255-4680.

In addition, if there are questions or concerns about the campus judicial system, please feel free to contact either the Office of the Judicial Administrator or the Office of the Judicial Codes Counselor, formerly the Judicial Adviser's Office. The judicial codes counselor serves as an adviser for community members who have questions about either the Campus Code of Conduct or the Code of Academic Integrity. The phone number for the Office of the Judicial Codes Counselor is 255-6492.

Sincerely,
Marjorie W. Hodges
Judicial Administrator

Households' time allocation deserves more attention, scholars say

By **Albert E. Kaff**

About 100 scholars from the United States, Canada and Europe met at Cornell on March 13 and 14 to discuss research in the allocation and value of family time use and its public policy implications.

They hope to make legislators and business executives more aware of the monetary and social values of time allocation.

Rosemary Avery, an assistant professor of consumer economics and housing at Cornell who arranged the conference, said the meeting was one of the first interdisciplinary sessions into research on the use of household time by family members.

The conference was dedicated to two pioneers in family time studies who taught and conducted research at Cornell: Jean Warren, a professor of household economics and management, who died in 1990 at the age of 81; and Kathryn E. Walker, a professor emeritus of consumer economics and housing, who

received her Ph.D. in 1955 under Warren's supervision and who attended the conference.

In their remarks, scholars who presented conference papers said that the early research by Warren and Walker helped them develop the field of study into household time use.

Sponsored by the College of Human Ecology and the Cornell Life Course Institute, the conference "Household Time Use: Research in the 21st Century" looked into a wide array of issues concerning activities of people on farms, in cities, in Canada's bicultural society, in Japan, Africa and Germany.

Gary S. Becker, a professor at the University of Chicago and a columnist for *Business Week* who is credited by academic specialists with radically changing research in the study of the family with his 1965 work, aptly titled *The New Home Economics*, said that "in the 1950s, I began to see that households were producers as well as consumers. It was surprising to me that the allocation of time in households had been ignored, had not re-

ceived attention by economists. Time studies have been neglected for almost all the history of economics."

He argued that "in poor economies, goods are valued because they are scarce, but time is not, yet people in those economies are highly productive. On the other hand, people in rich societies are starved for time while goods are plentiful. In a country like Zaire, the problem is how to obtain more food. In comparison, the problems we face in industrial societies look ridiculous — how to get another 15 minutes out of a day."

Becker argued that economic development has raised the value of time and that "non-working time [away from employment] has a strong production factor."

Robert T. Michael, dean of the Graduate School of Public Policy Studies at the University of Chicago, spoke about some of the economic measurements of family time use. He quoted studies that show that married men on average earn more than unmarried men.

"When a man divorces, his wage rate falls [over a long term], so there appears to be a time investment in male productivity by the wife," he said. In addition, he noted that little attention has been focused on how time in sexual activity affects a person's well being, and he told his colleagues: "I urge you to collect material on time use in sexual activities."

Asked in a question-and-answer period how scholars could urge government officials to consider time research in setting public policies, Michael said, "The burden is on us to persuade government that well being is not measured solely in monetary terms."

Sarah Fenstermaker, professor of sociology and women's studies at the University of California at Santa Barbara, said that when policy-makers work on measures to remove people from the public welfare rolls, they sometimes err in evaluating child-care problems, she said, presuming that relatives and others will provide the time for child care.

Rape *continued from page 1*

said.

O'Reilly also discussed the five stages of rape, explaining the rapist's strategy, clues investigators should look for and how a woman might best respond to a rapist.

The rapist's strategy, and O'Reilly's advice to women at each stage, follows:

• **Targeting:** The rapist decides who his victim will be.

Advice: Don't give a strange man easy access. Keep your doors locked. Don't travel alone at night; get a campus patrol or escort. Don't go where there is little likelihood of

intimidated. A background in martial arts training can also be useful. "It gives you a positive assertive stance. You learn to walk like you are someone to be reckoned with," he said.

• **Threatening:** The rapist may display a weapon and say how he is going to rape the woman and what he will do to her if she does not go along with him.

Advice: Decide what option to take: Fleeing, fighting, talking or submitting. Fleeing is best, where possible. Where not possible, about 50 percent of the women facing rape submit; 25 percent try to talk their way out of it by, for example, praying, claiming they are pregnant or have AIDS, or by acting crazy; and 25 percent fight.

The odds of success between talking and fighting are equal: one in three escape rape. But the risks are higher for women who fight, O'Reilly said.

"If you fight and don't succeed, you are likely to be more seriously injured," he said. Women who have carried mace or pistols have often had the weapons used against them. Others have merely frustrated the rapist, instead of incapacitated him and, thereby, instigated more violence.

"If you choose to fight, do something devastating and get out of there," O'Reilly said. The best strategies are to put a finger in the rapist's eye and pop it out of the socket or squeeze his testicles, not his penis, very hard.

Beyond this stage, options become much more limited.

• **Transmission of sex:** "Once he has pen-

etrated, stop fighting. He will get more violent if he gets frustrated." Once the rape occurs, disassociate. Try to think about something else.

• **Termination:** "At this stage, the woman says, 'You must feel good now,' and she gets punched. Or she says, 'I'll get you if it takes the rest of my life.' And it might be the rest of her life right then," O'Reilly said.

"You've survived. Go along with his program. He is looking for submission. If you give him less than that, he's going to come after you and get control, thinking you didn't learn the lesson. Don't even glare at him. Play the hang-dog. Look down.

"But out of the corner of your eye, try to get a description and then go to the police," he said.

'We cops are real good at being compassionate with people whose wounds we can see. But with a rape victim, none of these things are visible.'

— Harry O'Reilly

interruption, such as the laundry at 3 a.m.

• **Testing:** The rapist determines whether his target can be intimidated. He might do this simply by asking where the bus station is or by physically pushing her.

Advice: Be as assertive as you can without provoking. Deny access to your personal space. If you are approached, try to be anonymous. Do not engage in conversation. Do not let him get close enough that you can be

Serious felonies on campus reported to Public Safety

	1988	1989	1990	1991
Murder	0	0	0	0
Rape	2	0	1	5
Robbery	0	1	1	1
Aggravated assault	10	10	11	7
Burglary	158	99	137	114
Larceny	528	527	695	648
Motor vehicle theft	3	2	4	3
Arson	3	1	0	0
Liquor-law violations	0	0	9	17
Drug-abuse violations	1	2	8	5
Weapons possession	2	1	4	11

Source: Department of Public Safety

CORNELL Employment News

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Need Temporary Summer Help? Think Cornell Employees

With the rain still drizzling—endlessly, it seems—and changing to snow from time to time, it is hard to imagine that spring will ever arrive or summer ever follow. But, inevitably, in a fanfare of sun and humidity, spring will come to Ithaca and the university will be plunged into a flurry of last-minute activity before classes end. Many of the students will then depart to the four corners of the earth, and the measured pace of summer will begin for the rest of us left behind.

And, just as inevitably, the departure of the students means that some on-campus facilities and services will be closed or operate at reduced levels. As always, these reduced services will necessitate laying off a number of staff for the summer months, usually from the last part of May to mid-August. Many of these staff work at Cornell year after year, and each summer face the dilemma of finding employment, either on campus or off, to fill in until the fall activities bring them back.

The Office of Human Resources asks for the help of all managers and supervisors who might need temporary staff during the summer months to consider hiring these regular Cornell employees. If you know you will need to hire temporary help over the summer—or even if you think the need for temporary help may arise—please contact Staffing Services (Esther Smith, 5-8081, or Karen Raponi, 5-2192).

Among the staff who are usually laid off because of summer scheduling are food service workers, cooks, office assistants, cashiers, and accounts assistants, as well as other employees. Besides providing experience in their own field, many of these employees have skills that are easily transferable—they can fill in as material handlers, custodians, field assistants, office clerks, laboratory assistants, and delivery drivers, for instance. They also have the additional advantage of already being familiar with the university and its policies and practices.

By drawing from this workforce rather than relying primarily on the local temporary services offices, we not only show our support of all Cornell employees, but also are better positioned to once again take advantage of their experience when the fall semester begins, and full schedules are reinstated.

By contacting Staffing Services now, the Office of Human Resources can begin to compile a listing of projected temporary help openings. Then when summer arrives, the process of placing those staff members laid off because of summer scheduling hours into those openings for which their skills and experience are appropriate will be greatly facilitated. The help of supervisors and managers in considering this yearly fluctuation of the Cornell workforce when planning summer operations will enhance the smooth transition of an important segment of our campus workforce from spring to summer—and, months still away, to the fall.

Save the Date!

On April 23, 1992, Suzy Szasz, reference librarian, will talk about her book, *Living with It: Why You Don't Have to Be Healthy to Be Happy*, at a brown bag lunch in the Day Hall Board Room (3rd floor), from 12 noon to 1:00 p.m. In the title of this book, "it" refers to lupus. Szasz was diagnosed as having this disease when she was 13, and she will talk about her experiences over the past 23 years in living with and managing this chronic illness. "Patients with a chronic illness must recognize that while they are not responsible for the disease, they must take responsibility for its management," she writes in *Living with It*. "In a sense, this makes living with a chronic illness not very different from living without one: for everyone, healthy or sick, living competently requires assuming maximum responsibility for one's own life."

The Brown Bag lunch is free and open to all Cornell faculty, students, and staff. For further information, call Joan Fisher, Coordinator of Disability Services, 255-3976.



Veterans of the Vietnam Era: Affirmative Action Coverage, Definition Update

The Vietnam Era Veteran's Readjustment Assistance Act of 1974 requires affirmative action efforts in the recruitment, employment and promotion of special disabled and Vietnam era veterans by federal contractors, of which Cornell is one. Effective December 31, 1991, Public Law 102-16 amended the definition of "veteran of the Vietnam era" under the Act by extending the coverage cut-off date to December 31, 1994. Hence, "veteran of the Vietnam era" means a person who:

- 1) served on active duty for a period of more than 180 days, any part of which occurred between August 5, 1964 and May 7, 1975, and was discharged or released therefrom with other than a dishonorable discharge, or
- 2) was discharged or released from active duty for a service-connected disability if any part of such active duty was performed

between August 5, 1964, and May 7, 1975. No veteran may be considered to be a veteran of the Vietnam era under this paragraph after December 31, 1994.

The Office of Equal Opportunity provides affirmative action programs and services to disabled and Vietnam era veterans. Those employees who choose to identify themselves as disabled or Vietnam era veterans may contact this office for services. Each year Cornell reports on the employment of special disabled and Vietnam era veterans in the work place as required by the Department of Labor of federal contractors. Employees hired since March 31, 1991 will receive a self-identification survey which explains the Department of Labor requirement.

Employees are encouraged to contact the Office of Equal Opportunity at 255-3976 or TDD 255-7665 for more information.

Caregivers

If you have difficulty balancing caregiving and transportation demands, please call Jan Eckert at 255-4628. We need your ideas!

To All Supervisors of Office Professionals

The New York State School of Industrial and Labor Relations, Division of Extension and Public Service, is sponsoring a symposium for office professionals on April 22, from 10:00 a.m. until 2:00 p.m. in the Biotechnology Building Conference Room. The symposium is entitled, *Work and Home Issues for Office Professionals in the 1990s: A Symposium Celebrating Secretaries' Day*. You as a supervisor are strongly encouraged to support your staff members by informing them of the program and providing them the opportunity to attend for the scheduled hours. Lunch will be provided at no charge to the participants of the symposium. The office professionals should be allowed to consider part of the program as their normal lunch period and the remaining time is to be considered hours worked and should be so indicated on the time card. If there are any questions or concerns, please call Staff Relations and Development at 5-7206.

Thank you for your support and for helping us recognize the many contributions made by the office professionals on this campus.

Beth I. Warren

Beth I. Warren
Associate Vice President for Human Resources

Work and Home Issues for Office Professionals in the 1990s A Symposium Celebrating Secretaries' Day

April 22, 1992
10:00 a.m. - 2:00 p.m.
Biotechnology Building

Work and Home Issues for Office Professionals in the 1990s will be the subject of a symposium in celebration of Secretaries' Day on Wednesday, April 22, from 10:00 a.m. to 2:00 p.m. in the Conference Room of the Biotechnology Building (corner of Garden Avenue and Tower Road.) The program, offered for Cornell University secretaries, office assistants, accounts assistants, administrative aides and other office professionals is sponsored by the New York State School of Industrial and Labor Relations, Division of Extension and Public Service.

Panelists will discuss: *Working in New Ways* (job sharing, part-time and flex-time), *Organizing Child Care*, *Managing Senior Care*, *Being Single*, and *Continuing Education*. In addition, Beth I. Warren, associate vice president for human resources at Cornell, will discuss new directions for office professionals.

A box lunch will be provided at no cost to the participants. Preregistration is required to attend. Reservations can be made either by calling 5-4462 or by forwarding the preregistration form below to: Deb McKane, Room 209 ILR Conference Center, no later than Wednesday, April 15.

The sponsors are looking forward to this event in celebration of the contributions made by office professionals on the Cornell University campus. Any questions concerning the program can be directed to members of the planning committee: Ileen DeVault, Jennie Farley, Deb Fisher, Rahat Idrees, Donna Levengood, Deb McKane, Cathy Mooney or Claudia Strednak.

I will attend *Work and Home Issues for Office Professionals in the 1990s* on Wednesday, April 22, 1992.

Name _____ Department _____ Phone _____

Deadlines for CCTS Applications

Employees who are now receiving the Cornell Children's Tuition Scholarship (CCTS) will automatically receive an application for the new academic year 1992-93. All other employees who need to apply for CCTS should request an application from the Employee Benefits Office, 130 Day Hall, or call Maureen Brull at 255-7509.

The deadlines for submission of applications are as follows:

Summer Session - May 1, 1992
Academic Year 1992-93 - June 1, 1992
Fall Term Only - June 1, 1992
Winter-Spring Term Only - December 1, 1992

To assist you in the process of applying for the CCTS benefit, the Employee Benefits section of OHR will sponsor an information session on **Thursday, April 2, 1992, from 3:00 p.m. to 4:30 p.m. in 163 Day Hall.** This session will provide relevant information about the program as well as an opportunity for questions and answers. A representative from the Financial Aid Office will also be present to discuss applying for TAP awards.



Select Benefits Claims Schedule 1992

Reminder: The cut-off dates for remitting claims for reimbursement under the Select Benefits program are listed below. Your claim form with supporting information must be received by either the endowed or statutory benefits office no later than the dates shown below. Reimbursement will be delayed until the next two-week cycle is completed if materials are not in our office by the cut-off date.

4/10	6/05	7/31	9/25	*11/19
4/24	6/19	8/14	10/09	12/04
5/08	7/02	*8/27	10/23	*12/17
*5/21	7/17	9/11	11/06	

*Early deadlines due to Memorial Day, Labor Day, Thanksgiving and winter holidays.

JOB OPPORTUNITIES

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 resumé and cover letter, specifying the job title, department and job number, are 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 and job number. Employees should include an Employee Transfer Application.

Systems Manager (PT0705) Level 36 Network Resources/Telecommunications- Endowed

Posting Date: 2/20/92

Responsible for the operation of Telecom support systems (personal computers, network connections, and microprocessors). Supervise support staff. Assist other departments with campus data communications integration.

Requirements: BS degree or equivalent in computer science or related field. 5-7 yrs. related experience. Knowledge of applications for administrative systems, database management systems, machine architecture and system utility programs. Demonstrated proficiency with ADABAS, Natural and COBOL; and MVS, JCL, VM/CMS, and UNIX. Experience with other languages and operating systems helpful. Broad exposure to personal computer systems and mainframes required. Send cover letter and resume to Sam Weeks.

Technical Consultant II (PT1402) Level 33 Hotel Administration-Endowed

Posting Date: 2/9/92

Provide technical assistance and general support of hardware and software platforms for the Hotel School faculty, staff and students on PC's and workstations. Plan, develop and implement workstation technologies throughout the school and hotel. Assist users calling the department's help desk. Assist faculty seeking "Courseware" and related classroom technologies. Identify appropriate strategic platforms that can be effective productivity tools. Insure adequate preventive maintenance is performed. Assist in selection of technical staff.

Requirements: Bachelors degree or equivalent in computer science. 2-3 yrs. of practical experience with workstation technology. Familiarity with various network operating systems desired. Send cover letter and resume to Sam Weeks.

Head, Information Technology Section (PT1203) HR II

Albert R. Mann Library-Statutory

Posting Date: 3/26/92

Manage the systems development and tech-

nical support group for an innovative science library, active in information systems research. Supervise six technical professionals and manage complex system development projects. Oversee a \$750,000 budget and initiate and coordinate technical aspects of grant-funded projects. Work to further the innovative applications of emerging information technologies in the management of scholarly information.

Requirements: Bachelors degree or equivalent required. Masters in computer, library, or information science, or related field desirable. Formal course work in computer science desirable. 7 yrs. relevant experience including programming, systems analysis, systems management, network administration, or technical management. At least 2 yrs. of technical management experience, knowledge of microcomputers, LANs, modern programming environments and techniques, and UNIX systems desirable. Send cover letter and resume to Sam Weeks.

Assistant Cost Analysis (PA1302) HR II Cost Analysis-Endowed

Posting Date: 4/2/92

Reports to Director, Cost Analysis. Responsible for key financial analyses involving: indirect cost calculation, administrative charges to colleges, responsibility centers analysis, accessory instruction as well as other ongoing analyses (fringe benefit, administrative charges). Provides staff support to the Controller.

Requirements: Bachelors degree in business administration, accounting, finance or other closely related field. 3-4 yrs. related work experience. Excellent communications skills to interact with individuals in various departments across campus. Send cover letter and resume to Cynthia Smithbower.

Administrative Manager II (PA1303) HR II NAIC, Ithaca-Endowed

Posting Date: 4/2/92

Provide general assistance and oversight in the administration of facility upgrading activities taking place at the Arecibo Observatory, PR.

Requirements: Bachelors in business or related field required. Masters in similar field desired. Minimum 3-5 yrs. progressively responsible experience in commercial or educational/institutional research setting. Familiarity with Lotus. Good communication and interpersonal skills. Send cover letter and resume to Cynthia Smithbower.

Development Officer (PA1304) HRI School of Hotel Administration-Endowed

Posting Date: 4/2/92

Assist with planning, development and implementation of the Hotel School's effort to obtain support from private sources. Primarily responsible for the administration of the SHA gift acknowledgement system of the scholarship accounts.

Requirements: Bachelors degree required. Advanced degree preferred. Ability to com-

municate orally and in writing. Experience in directing volunteers and some knowledge of fund raising preferred. Excellent organizational ability essential. Send cover letter and resume to Cynthia Smithbower.

Research Support Aide (PC1303) HRI Soil, Crop and Atmospheric Sciences- Statutory

Posting Date: 4/2/92

Assist with data compilation and analysis, writing and production of monthly climate publications. Answer telephone and written requests for climate data/information and assist with research projects.

Requirements: B.S. degree in Meteorology/ Climatology required. 2-3 yrs. related experience. Excellent communication (oral and written) skills. Familiarity with the use of the Macintosh computer for word processing and other applications is essential. Experience with mini or mainframe computer systems is desirable. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza #2. Employees should include employee transfer application.

Project Administrator (PC1205) HRI Human Development Family Studies

Posting Date: 3/26/92

Provide administrative support for Cornell Youth and Work Program. General administrative responsibilities including correspondence, accountability supervisor, publications, newsletter, and project development.

Requirements: Bachelor's degree or equivalent and 2-3 years related experience. Knowledge of wordperfect 5.1. Ability to work independently and under pressure. Excellent organizational, interpersonal, and communication (written and oral) skills. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza #2. Employees should include an employee transfer application. Women and minorities are particularly encouraged to apply.

Research Support Specialist (PT0901) HRI Center for Radiophysics and Space Re- search-Endowed

Posting Date: 3/12/92

Provide electrical engineering support for the infrared astronomy group. Design circuits and boards; breadboard and test; fabricate finished designs; integrate into instrumentation; and test and maintain as required. Work independently within a group setting.

Requirements: BS degree or equivalent in electrical engineering. 2-3 yrs. related experience. Send cover letter and resume to Sam Weeks.

Science Writer (PC1004) HRI Theory Center-Endowed

Posting Date: 3/12/92

Under general direction of the Director of Corporate and External Relations, develop and prepare written information of a technical or complex nature about the Theory Center

and technological and scientific progress by users of Center resources for dissemination to its internal and/or external public.

Requirements: Bachelor's degree in a scientific field with related scientific writing experience is essential. 3-4 yrs. related writing experience is necessary. Knowledge of Macintosh software. Familiarity with computing terms highly desirable. Demonstrated ability to communicate technical/scientific concepts into layperson's terminology. Send cover letter, resume, and three writing samples to Esther Smith, Staffing Services, East Hill Plaza #2. Employees should include employee transfer application.

BOYCE THOMPSON INSTITUTE

Part-time Greenhouse Assistant Boyce Thompson Institute for Plant Greenhouse

Salary: \$6.70

Posting Date: 3/26/92

Perform general greenhouse duties such as watering, planting, lifting, etc. Weekend work required.

Requirements: A.A.S. in horticulture or equivalent experience and NYS drivers license required. A working knowledge of greenhouse operations would be helpful. Must be able to lift 50lbs.

Contact: Anne Zientak, Boyce Thompson Institute, 254-1239

Technical

As a prominent research institution, Cornell 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. Send a cover letter and resume 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.

Waste Technician GR17 (T1301) Environmental Health-Endowed

Minimum Biweekly Salary: \$530.38

Posting Date: 4/2/92

Assist with handling, sampling and testing of radioactive waste, record keeping and data entry. Pickup and deliver dosimeter badges and radioactive material.

Requirements: High School diploma and valid NYS license. Good communication

Networking

AN EMPLOYEE NEWSPAPER BY EMPLOYEE VOLUNTEERS FOR THE CORNELL COMMUNITY WORLD WIDE.

EMPLOYEE SPOTLIGHT

Judy VanDermark Wins Employee-Elected Seat on Board of Trustees by Unprecedented 52%

by Cristen W. Gardner



Judy VanDermark is Cornell's newly-elected employee Trustee. Cornell is one of the few institutions of higher learning that has an employee as a full voting member of its Board of Trustees. She will be replacing Dwight Widger who will be stepping down after serving a four-year term. His experience in campus government, noted in George Peter's Trustee Report, served him well in his capacity as the employee-elected Trustee. Dwight demonstrated throughout his term commitment and energy. The job Judy will inherit is one Dwight has done well—to bring the employees' perspective to the decision-making process while guarding the interests of the whole community. We thank him.

Judy, one of three candidates for the position, received an unprecedented

52% of the employees' vote in the first round of the complex voting system used in these elections. Her broad-based support is indicative of her many involvements on campus. She has been employed at Cornell for 11 years and during this period of time has held a number of different positions at varying levels of employment. Judy began her career at Cornell as an office professional in the Department of Residence Life, worked in the Dean of Students Office and at Telecommunications and is now the director of Conference Services.

Her involvement in volunteer activities here at Cornell demonstrates her commitment to our community. Judy was the editor of "Networking" for three years, is a six-year member of the Advisory Committee on the Status of

Women, is the chair of the University's Summer Operations Committee, facilitates in many University employee workshops, and this past summer served as the chairperson for the opening ceremonies for the New York State Special Olympics. Judy's employment history and volunteer experiences have provided her with the broad perspective and experience necessary to be an effective employee-elected representative to the Board of Trustees.

She invites and encourages all Administrators to participate in open forums designed to address the concerns of the employees.

The old adage, "If you want a job done, ask a busy person," is true. We wish Judy congratulations and success.

INCITES

The Truth about Documentation

—As told by a CIT technical writer

Everyone hates to read computer documentation. Even the people who write it hate to read it. When you have a question about your computer or a program that runs on it, what you want is an instant technical guru to materialize by your side who will hold your hand, explain the mysteries of the blasted machine, and then dematerialize until needed again. What you don't want is to wade through 100 pages of documentation, or, if you're like most people, even one page.

Well, 50 years from now maybe the context-sensitive help in computer programs will take the form of a human-like, know-it-all, holograms that can be easily summoned to answer our every question. (Who knows, it might catch on!) Until then, what do we do when we can't remember a particular command, the guy down the hall who we usually ask for help is home babysitting a sick child, and the workshop that would have answered every question we have was held two weeks ago? We use (ouch!) documentation.

If you think the rest of this article is going to be a litany of the documents CIT (Cornell Information Technologies) produces and that you should read, you are...well, way ahead of me. I'm getting to that list (see box), but, for the moment, I'm wondering how I can get you to keep reading. How about a riddle?

What do an index, a table of contents, a headline, a numbered list, a bulleted list, a page number, an illustration, and a chart all have in common?

They're boring? Yes, but in addition to that, good documentation uses some or all of these features to help you find the topic you want and find it fast. Good documents are set up so that you can locate the information you want by using the table of contents and the index. And when you go to the page or section where you think the topic you are interested in should be discussed, a good document will make the information there (catch this word) *scannable*. You

should be able to glance through a chart, or read down a list, or look at the heads and subheads to see if this information is what you need. If you're looking for a procedure, or a command, or a list of ways to get help, a good document will make these jump out at you. Yes, you'll still have to read, but maybe not as much as you think.

CIT strives to create documents that are easy to use. Okay, using them may not be as easy as asking the guy down

the hall, but they are definitely something to fall back on when the going gets rough.

CIT's *Getting Started* guides are especially handy references to have around when you can't quite remember the ins and outs of CMS and VMS, two operating systems that run on CIT's host computer systems; RICEMAIL and VMS Mail, the electronic mail systems on CIT's hosts; and BITNET, a network that

(continued on page 3)

LEADERSHIP LEADS

Buzzards, Buzzwords or Eagles

by George Peter

More and more managers are sounding like they are Leadership Literate. But the real test is **to be** leadership literate. It's a lot easier to sound smart than it is to be smart.

Everyone seems to have jumped on the bandwagon to talk about leadership skills. Buzzwords go flying about. We hear, "Total Quality Management," "Eagle Stories," "Empowerment," and all the other popular buzzwords which indicate that the user has been reading or listening to people like Ken Blanchard, Tom Peters and/or Deming.

The problem is that it takes more than buzzwords to make an **eagle**. It takes more than the use of these words

to make a leader. It's tough to make a leader because it's easier to spout ideas than it is to put them into practice. Too many believe that to run an operation is 95 percent economics and 5 percent people. In the real world the opposite is true. Running an operation "is 95 percent people and 5 percent economics." Properly trained and motivated people make the economics work.

Here at Cornell, we hear about initiatives to promote Total Quality Management. A new concept called "Legendary Service" will be announced in future issues of *Networking*. These are all very well and good.

But when will we ever learn? None of these initiatives have involved even a token non-exempt employee in the planning stage. Nothing works without involving the troops. It doesn't work to involve the troops after the program is designed. Every writer on the subject of leadership has emphasized this point. The key buzzword, that is too often used but not utilized, is **involvement**.

The message is to **involve** a cross section of the organization in the planning stage. People don't buy into something handed them from on high. People are **empowered** by sensing that they are a part of a team effort. Let's not treat them as buzzards and call them eagles.

WORK AND FAMILY ISSUES

by Marilee Bell

Many people in the Cornell community are faced with the difficult task of keeping their work life and their family life in the right balance. Because of this need Cornell has recently established a source for information, referral, and resolution with issues pertaining to work and family.

Now there is a place to go for help and the **Office of Work and Family Issues** is the place to start! This office is designed to perform a coordinating effort for members of the Cornell community who have occasional difficulties maintaining the right balance between their work and family lives. Even though this office will not always provide the specific services needed, you will be directed to the person who does. Many concerns are quite complex and involve several offices and departments working together to find the best solution possible.

A recent caller was a parent whose young child had been in an accident. He had two major concerns. One was to be able to have closer access to his car. Through the cooperation of the Office of Transportation and being told of the pilot CarePool program, he was not only able

to park closer to his work but to save money as well. His second concern involved his wish to have a more flexible schedule. He was referred to a person in Staff Relations and Development in the Office of Human Resources and they were able to assist him with the necessary arrangements with his department.

The Office of Work and Family Issues also has a library of information on Cornell and community services such as: day care, elder care, and balancing other aspects which influence work and family. If you have a question, concern or need a referral, contact Marilee Bell, the Coordinator of the Office of Work and Family Issues at 255-3649, Email mby@cornellc, or stop by 306 Rice Hall.

Beginning with this issue of *Networking*, there will be a new column (depending on space allotments) dealing with the work and family balance. In upcoming issues we'll be giving you more information on flex time and summer camp possibilities. We'd like to hear from you if there are specific issues you'd like to see addressed in *Networking*. We look forward to your input and helping you keep your home and work life in balance.

It is always easier to
hate something
than it is to
understand it.

Do You Have Questions about HIV Infection or AIDS? Call somebody!!

By Victoria Gehring and Sharon Dittman

AIDS is not someone else's disease anymore. It's here, it's now, and it's part of our lives in one form or another, whether we know it or not. We need to educate ourselves and those around us.

Cornell and Tompkins County have many avenues people can take to learn more about HIV/AIDS. Sharon Dittman is the Coordinator of Cornell AIDS Action. You can reach her at the Health Education Office on the third floor of Gannett Health Center or call her at 255-4782. She will try to answer your questions or refer you to someone who can.

The Cornell AIDS Advisory Committee (made of forty Cornell staff, faculty, and student volunteers) which oversees various efforts related to HIV/AIDS, including the development of a Cornell AIDS Policy, advocacy on behalf of people who are infected with or affected by HIV, or education for more knowledge about the virus. The AIDS Advisory Committee is sponsoring HIV/AIDS Train-the-Trainer Programs and the "Ask Me about AIDS Network" for people who want to help educate the Cornell community about HIV.

HIV Disease and AIDS are considered protected disabilities. The Office of Equal Opportunity and the Office of Human Resources can help people understand their rights, find out what benefits are available, and answer other questions about AIDS in the workplace. OEO

can also help people who experience discrimination. With questions or problems, please call the Office of Equal Opportunity at 255-3976 or the Office of Human Resources at 255-7206.

Counseling might be a great help when dealing with HIV infection. There are many organizations that offer help:

- Employee Assistance Program
272-1129
- Planned Parenthood
273-1513
- Mental Health Services Clinic
273-4163
- Family and Children's Service
273-5422

AIDS Work of Tompkins County, located in the Dewitt Building in downtown Ithaca, is the local HIV/AIDS education and support organization. Their number is 272-4098. In addition to information, they provide support groups and assistance for people affected by HIV infection. If you want to know if you have been exposed to the virus, call Gannett at 255-3978 or 255-6958 for a free and anonymous testing. For an off-campus test, call the New York State Testing Center at 1-800-562-9423.

No matter what your question or needs about AIDS, there is someone out there who will listen and try to help you. Don't wait any longer! Just pick up the phone and call.

Networking Articles

By Susan E. H. Hollern

If you are interested in writing articles for up and coming issues of *Networking*, now is the time to mail them in.

There are only three more issues of *Networking* to be produced before the summer hiatus. The dates to keep in mind before our summer break are: April 23, May 7 and May 21.

April 23 articles are due April 10.

May 7 articles are due April 24.

May 21 articles are due May 8.

Please feel free to send your article(s) to me at 440 Day Hall. Articles must be on a disc (IBM or Mac). Please include a hard copy of your article with your disc. Articles without a disc will not be accepted.

As always, if you have any questions, please feel free to call me at 255-7540.

EMPLOYEE ASSEMBLY COMMUNICATIONS COMMITTEE

Dear Colleagues:

On behalf of the Office of Assemblies Communications Committee, I would like to reintroduce the following *Clip & Return* section. This section provides a continuous opportunity for the Cornell community to ask questions regarding areas of concern, interests, etc. Simply write your question in the space provided and return the form to the Office of Assemblies at 165 Day Hall. The Committee will then review the questions and contact the appropriate person(s) for the answers, which will then be printed in *Networking* and/or personally responded to by one of our Communication Committee members. Although your name will be kept confidential, we do request that you complete the name and phone number when submitting a question so that we can contact you if we need further details. Please indicate if you would prefer for us to respond personally by a phone call and/or letter form. If you have any questions regarding the *Clip & Return* section or the Communications Committee in general, please feel free to contact either myself (255-6290) or Coleen Fabrizi, Co-Chair (254-2581), or by writing the Communications Committee, 165 Day Hall. We hope that you will find this to be an invaluable resource to enhance communication within the Cornell community.

Thank you!

Sincerely,
Mary Beth Lombard,
Co-Chair

Clip & Return

Question(s): _____

(If additional space is needed, please attach extra sheet and return.)

Please respond to my question by: Phone Letter

The information requested below will be kept confidential.

Name and Address: _____

Phone: _____

Return to: Office of the Assemblies, Communications Committee, 165 Day Hall

Documentation (continued from page 1)

links many universities and institutions. Although the Getting Started guides are not comprehensive, chances are you'll find in them the answers to your most basic questions, plenty of examples, and information on where to get more help if the document doesn't do the trick. And though some of the documents are lengthy, we think they're set up so that you can find what you need to know without an unrealistic investment of time. For a full list of CIT's *Getting Started* guides, please see the sidebar "Popular CIT Documents."

Can't find what you want on the *Getting Started* list? How about a *How To?* When CIT identifies something that lots of people seem to want to know how to do, we develop a "How To..." document. For example, it recently became clear that a lot of people wanted more information on how to use *Comet*, Cornell's Macintosh Terminal Emulator. So we wrote a document called (all together now) *How to Use Comet*. It describes how to use every feature in the program, including how to upload and download files between your workstation and a host. Now this document looks long. But it's got tables of contents, it's got a section for beginners, it's got an index, it's even got a chart that lists every menu item and tells you where to find more information about each item. Use these features, and we think you'll spend less time complaining about having to "read" documentation and more time doing what you set out to do.

CIT has heaps of other *How To's* too. Some of our most popular are listed in the "Popular CIT Documents" sidebar. We also have technical notes (mostly for people who use host system applications and who need some tips on how these applications work on Cornell machines), quick references, and manuals. For a full list of available documentation, come to CIT's reception desk, 121 CCC, and request a *CIT Publications List*. You can also call 255-8000 and have one mailed to you.

Your Publications List should come with a Price List that carries the names and prices of the documents that CIT sells. Most CIT documents are available at no charge, but the long ones do come with a price tag that covers the cost of printing and binding. We know...we should use less paper...we're working on it. Keep watching this column for an upcoming article on electronic distribution and retrieval of documents. More reading? Sigh. We'll try to make it...what's that word?...scannable.

Popular CIT Documents

Getting Started with Electronic Mail
Getting Started with CMS
Getting Started with BITNET
Getting Started with VMS and VMS Mail
Getting Started with Comet
Getting Started with PC-IP (TN and C19)
A User's Guide to Electronic Mail (How to Use RICEMAIL)
How to Connect to Cornell Computers from Outside Ithaca
How to Select a Terminal Emulator
How to Use Comet
How to Disable Word's "Fast Save Enabled" Command
How to Convert Files on Microcomputers: Macs and PCs
Macintosh System 7 in a Nutshell
How to Make the Most of CIT Sales
Making the Most of the HelpDesk and Consulting.

The documents listed here are available in three places. All documents are available at the CIT Service HelpDesk, 121 CCC, open 8:00 am to 6:00 pm, Monday-Friday. Documents that are sold are also available at the Campus Store and at CIT Sales, 110 Maple Ave.

Poetry Contest

The 3rd Networking Poetry Contest is now underway and we are awaiting your poems. This contest is being held as part of the Networking Board's efforts to meet the objectives of Networking which were established more than a decade ago. These include: encourage employee participation, enable the employees to have a voice, promote personal growth, and to utilize unused talent at Cornell. We are also aiming to improve communication between units at Cornell, as some departments are donating their time and services as prizes for the contest.

The Office of Human Resources and Cornell Information Technologies (CIT) have both donated workshops, the Laboratory of Ornithology has offered a gift certificate to their Crow's Nest Bookstore, Cornell Dining Services and Transportation Services have also donated prizes, as well as other departments on campus.

So if you enjoy writing poetry, write a poem or two and submit them before April 17th, using the enclosed entry form.

Poetry Contest Entry Form

I hereby enter my original poem in Networking's Poetry Contest. I give Networking permission to publish my poem and name. I have read and will abide by the rules of the contest.

Signature: _____ Date: _____

Name (please print): _____

Campus Address: _____ Phone: _____

Please send entries via Campus Mail to:

Kathee Shaff CIT/IR
33 Thornwood Drive

by the deadline of April 17, 1992



Commuter Connection

CORNELL UNIVERSITY OFFICE OF 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	Union Springs
Binghamton	John	5-6527	Share	M-F	8:00-5:00		
Binghamton	Hong	5-0738	Share	M-F	9:00-4:00		
Brktondale	Deborah	5-2115	Drive	M-F	9:00-4:00		
Brktondale	Veronica	5-5613	Drive	M-Th	9:15-3:00		
Candor	Ruth	5-5174	Share	M-F	6:00-2:30		
Caroline	Resa	5-5476	Drive	M-F	7:30-11:30		
Caroline	Cheryl	3-3010	Share	M-F	7:00-3:30	No	
Cayuta	Mary	5-2029	Share	M-F	7:30-4:30		Alpine Junction
Cortland	Donna	5-3245	Share	M-F	8:00-4:30	No	8-4 Fri
Cortland	Tim	5-5973	Ride	F-M	12:00-12:00	OK	works 12PM-12AM
Cortland	Donna	5-9431	Drive	M-F	8:30-5:00	No	near High School
Cortland	Robin	3-3772	Ride	M-F	8:00-5:00	OK	Lake Como Rd
Danby	Maureen	5-6381	Ride	M-F	8:00-4:30	OK	
Dryden	Suzanne	5-8127	Share	M-F	8:00-5:00		Ellis Hollow
Dryden	Linda	3-3209	Drive	M-F	Flexible		
Dryden	Carlene	5-4376	Share	M-F	8:00-4:30	OK	Irish Settlemnt Rd.
Enfield	Shirley	5-6310	Share	M-F	8:00-4:00		
Enfield	Diane	5-6050	Share	M-F	8:00-4:30	No	near Hospital
Etna	Felicity	5-4004	Share	M-F	8:00-4:30	No	Routes 13/366
Freeville	Paula	5-6839	Share	M-F	8:00-4:30		
Genoa	Dave	3-3100	Share	Su-Th	6:00-3:00	OK	
Groton	Michael	5-6239	Ride	M-W	9:00-5:30	No	Sat & Sun too
Groton	Cathy	5-6637	Drive	M-F	8:00-4:30		
Hammndsprt	Gerald	5-6927	Ride	M-F	8:00-4:30		
Interlaken	Marca	5-7148	Share	Th,F	8:00-4:00	No	
Ithaca	Jan	3-3365	Share	M-F	7-9AM, 4:30-6:30PM		
Ithaca	Adria	5-7471	Share	M-F	8:30-5:00	No	Downtown
Ithaca	Doris	5-8198	Share	M-F	10:00-9:00		Parkwood Village
Ithaca	Mark	5-1665	Drive	M-F	8:30-5:30		
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
Ithaca	Joe	5-1687	Share	M-F	10:00-5:00	No	Route 89
Ithaca	Gail	5-4050	Share	M-F	8:00-4:30		
Ithaca	Tom	5-4882	Drive	M-F	9:00-5:00	OK	
Jacksonville	Timis	5-5174	Share	M-F	6:00-2:30	No	
Jacksonville	Eileen	5-3228	Ride	M-F	6:00-4:30		
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	Myers Point
Locke	Barb	5-7212	Ride	M-F	8:00-4:30	No	W. Groton Rd.
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	Jim	5-3272	Share	M-F	6:30-3:00		via Rt. 34 or 38
Newark Valley	Amy	5-2215	Share	M-F	8:00-5:00	No	8-4 Fri
Newfield	Elaine	5-3806	Share	M-F	7:30-4:00		
Newfield	Linda	5-1866	Share	M-F	8:00-4:30		
Odessa	Susan	5-5338	Drive	Su-Th	10:00-8:00	No	
Odessa	Rose		Share	M-F	5:00-2:30	No	Home# 594-3352
Owego	RaeAnn	5-6224	Share	M-F	8:00-4:30	No	
Owego	Carol	5-2306	Ride	M-F	5:00-1:30	OK	
Owego	Criss	3-3010	Share	M-F	8:00-1:00		
Spencer	Barry	5-2423	Ride	M-F	8:00-5:00	No	8 mi N of Spencer
Trumansburg	Tim	5-1381	Ride	M-F	8:00-5:00	No	
Trumansburg	Ellen	5-5411	Drive	M-F	7:30-4:30	No	
Trumansburg	Aulia	5-7956	Ride	M-F	7:00-4:00	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		
Virgil	Jean	3-3100	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	
Waverly	Linda	5-4284	Drive	M-F	8:00-4:30	No	
W. Danby	Pat	5-2889	Share	M-F	Flexible	No	Route 96
Willseyville	Ramona	5-2262	Share	M-F	8:00-4:30	No	
Willseyville	Sharon	5-9731	Drive	M-F	8:00-4:30		
Willseyville	Penny	5-4587	Drive	M-F	7:30-4:00		Fri 7:30-3:00

CORNELL RECREATION CLUB

Board of Directors Elections

The activities of the Cornell Recreation Club is overseen by 11 elected members on the CRC Board of Directors. These dedicated volunteers meet on the second and fourth Thursday's of each month from 12:00 noon until 1:00 p.m. The Board announces that there are two, 3-year positions available and one retiree position available.

CRC is accepting all nominations for these seats until April 15. Please send your nominations to CRC, 165 Day Hall, Ithaca, NY 14850, or call Janet Beebe at 255-7565.

This is your chance to become involved in the future of the Cornell Recreation Club. You'll have the opportunity to meet some great people, and we guarantee you'll have some fun along the way. Come on! Do your part—run for a position on the Cornell Recreation Club Board of Directors.

RADIO CITY MUSIC HALL EASTER EXTRAVAGANZA AND NEW YORK CITY: APRIL 11-12, 1992

This is your last chance to join CRC on their fantastic Easter get-a-way to New York City and the Radio City Easter Extravaganza. Join the world-famous Rockettes and the sunniest cast in town for an eye-popping, ear-perking musical spectacular guaranteed to put some spring in your step and a song in your heart! The bus will leave early Saturday morning, April 11 from Cornell's "O" Lot. The group will check in at their hotel, the Quality Inn Midtown, upon arrival in New York. The afternoon is yours to enjoy and explore New York City. You will receive tickets to the 8:00 p.m. performance of the Easter Show at Radio City

Music Hall. After checking out of our hotel at noon on Sunday, the group will visit South Street Seaport for a few hours of shopping. An early evening arrival is expected in Ithaca. The price is \$135.00, per person, double occupancy for CRC Club members. Your trip includes transportation, lodging, and tickets to Radio City Music Hall. Sign up today by calling 255-7565. Don't delay! Marlene Reitz is leading our group.

PANCAKE BREAKFAST: CRC PARK, APRIL 26, 1992

Fluffy, light pancakes, eggs done to order, delicious sausage, hash browns and piping hot coffee, is there a better way to start your day?? Come on out to the CRC Park on Sunday, April 26 start-

ing at 8:00 a.m. and enjoy breakfast with us! We'll be serving until 11:00 a.m. The Price is \$3.00 for adults and \$2.50 for children 12 and under. Advance tickets are available and tickets will be sold at the door.

VERNON DOWNS: JUNE 6, 1992

And they're off to another exciting night at the Vernon Downs Racetrack. The climate-controlled Miracle Mile Room features an excellent buffet with a winning combination of hot and cold dishes including carved sirloin, crisp salads, fresh breads and rolls, dessert table and coffee or tea. Included in your price of only \$34.00 is transportation, admission ticket to the Clubhouse, the "Miracle Mile Buffet" and a bounce back ticket for your use later in the racing season. A \$15.00 deposit is required upon sign up. Final payment is due May 15.

OTTAWA, CANADA: JULY 31-AUGUST 2, 1992

Land, Sea or Rail—you'll have it all on CRC's exciting trip to Ottawa. The group will leave early Friday morning. There will be a breakfast stop along the way. The Westin Hotel will be our "home" for our stay. It is located in the heart of downtown Ottawa, connected by walkways to both the Rideau Centre and the Ottawa Congress Centre.

After relaxing a bit, the group will dine at the Elephant and Castle Restaurant. A cruise on the Rideau Canal will finish out the evening. You won't want to miss Saturday's rendezvous with history on the Hull-Wakefield Steam Train. There will be great photo opportunities around every bend as the train winds its way up the Gatineau Valley from Hull to the picturesque village of Wakefield. Relax in comfort and let the "clickety-clack" of the wheels on the steel rails carry you back to the days of steam.

Saturday afternoon and evening you'll have time on your own to explore the beautiful city of Ottawa. Sunday will find us checking out of the Westin. We'll stop in the Thousand Islands and take a two-hour boat tour, stopping at Boldt Castle. Donna Vose is leading the way to a wonderful summertime adventure in Canada.

The cost is \$245.00 per person, double occupancy. A deposit of \$100.00 per person is required upon making reservations. Final payment is due the end of June. Call 255-7565 to sign up. Included in this trip is transportation, one dinner, two continental breakfasts, two boat cruises, lodging and the train fare. You don't have to belong to CRC to join us!

Look for more CRC events and trips next issue!

UNCLASSIFIED ADS

1. Please send all unclassified ads through Campus Mail **ONLY** to *Networking*. Unclassifieds, Susan Hollern, 440 Day Hall. Hand delivered ads will be omitted. **NO PHONE CALLS PLEASE!**
2. For our information your name and campus phone number **MUST** be submitted with ads, otherwise your ad will be omitted.
3. All unclassified ads are free of charge to Cornell faculty, staff and students and will be printed in the order received as space permits.
4. Please limit your ad to 30 words or less. Any ad longer than 30 words may be shortened by the *Networking* staff—depending on space available.
5. The deadline for the April 23 issue is April 14, 1992 at noon.
6. Please submit an ad for each issue that the ad should appear in. Thank you.

For Sale

Hoover Concept I upright vacuum cleaner. Excellent condition. \$100 OBO. Please call 5-1230 or 277-6867.

Six-drawer double wooden dresser, painted white, \$35. Please call 273-0940 after 4:30 pm.

Ten minutes to Cornell. Lansing area, 3-4 bedroom three-year-old ranch. Lake views and distant vistas on quiet country road. Large den plus office and family room. Two full baths. Large bi-level deck overlooking stream and woods on property. Laundry hook-ups. Near shopping, lake, parks, ACC cable. \$112,900 available immediately. Please call 5-2055 or 277-5206.

Six piece furniture set (includes couch, chair, rocking chair, foot rest with small table in middle (all one piece) and two end tables), \$350. Two ten-speed bikes, \$30 each or both for \$50. Set of K2 skis with Trioli bindings, Nordica boots and K2 poles, \$150. Cross country exercise machine, \$50. Please call Chris Eaton at 5-3393 or 749-2543 after 6:00 pm.

Electrolux Vacuum Cleaner with power nozzle. Like new. Large refrigerator with small freezer compartment. Please call 844-4577.

Two story house. Unfinished, rural Chenango County, surrounded by State forest, streams, farms. Needs well, septic, electric, plumbing, etc. Must sell. Very reasonable. Please call Diane at 5-4439 or 844-4155.

1983 Dodge D150 Pick-up truck, slant six engine, 68,000 miles, black with red interior, cap, Delta tool box (3 months old), p/s, p/b, a/c, new parking brake system, new clutch. Asking \$2,000. Please call 5-0493 or 835-6675.

White dresser, perfect condition, \$125. Sears Kenmore high efficiency air conditioner, excellent condition (used one year), \$300. Two, 1-ton wooden coal storage crates, \$30 each or both for \$50. Please call 272-2922.

Sailboat Super Snark. 11' deluxe coated styrofoam. Unsinkable. Never sailed. Retail \$489.99 now \$350. Dinghy fiberglass w/ oars \$450. Please call 257-1757 anytime.

Wedgewood dinner set, service for 6. Never used. Dinner plates, salad plates, soup bowls and saucers, soup tureen, vegetable dish, gravy boat. \$500. Please call 539-6822.

Lakefront home. Sheldrake area, comfortable year-round, 2+ acres, 150' lake front, paved road, 3 bedrooms, tile bath, two water supply systems, enclosed back porch, 2-car garage, shop with garage door. Please call 532-4309.

Pair of cockatiels. Male, gray with yellow and orange marking. Female, yellow with orange markings. Cage included. Asking \$10. Please call Sharon at 5-4109 or Ed at 5-3247. Evenings, 315-497-0432.

Refrigerator, small, uprights. Suitable for cottage or single person. \$50 OBO. Please call 3-3562 or 272-3029 evenings.

1985 Toyota Tercel Wagon. 4WD, air, am/fm, 5-speed, 86K miles. \$3,800. Please call 5-3192 or 564-7188.

1990 Bayliner Ciera Sunbridge. 22', 230 hp, V8. 40 hours on engine, dual axle trailer with brakes, camper and bimini top, docklines, fenders, anchors with lines, life jackets, safety equipment. Dual batteries, am/fm cassette with power booster and JBL speakers. Three props, VHF radio, depth and fish finder, sleeps 4, private head, sink and icebox, water-skis, etc. Asking \$23,000 OBO. Beautiful boat a MUST SEE!!! Please call Ron at 257-1142 or 257-3809 and ask for Ron or Kelli.

AKC English Cocker Spaniel female puppy, champion bloodline, 8-weeks old. All shots. Great temperament. \$300. Please call 5-6109 or 277-3842 and ask for Diane.

Minolta X370, 35mm camera with flash, extra lenses, case and filters. \$300. Please call 5-3763 or 387-5494 evenings.

Two acre developed lot. Three miles west of Ithaca on Route 79. Will rent with option to buy. No single wide trailers. Please call Tina at 5-7948.

1980 Catalina 22' sailboat, four sails, 4.5 hp Mercury, trailer, poptop with canvas, swing keel, many extras. \$5,500. Please call Laurie at 3-3712 or 546-5077.

1989 Cutlass Supreme International Series, red, loaded, 47,000 miles, one-owner, excellent condition. \$10,000 OBO. Please call 5-1362 or 315-497-9518.

Eastern rosella, a small colorful parrot. Hatched 02/20/92. \$150. Please call Lynn at 5-7739 or 273-4013.

Exercise bike with electronic speedometer, odometer, and timer. Perfect condition. \$100. Italian white marble table top, oval. Best offer. Wood stove, old, not in use, best offer. Please call 272-2922.

1984 mobile home, 2-bedroom, includes new shed, in park, available immediately. Asking \$10,500. Please call 564-7024.

Minolta 370 custom camera with 70 mm and 200 mm lenses, electronic flash, and two carrying cases. Like new, \$275. Dual Trac 20 weight lifting machine with butterfly attachment, extra weight package. Used twice (like new), \$650 invested; selling for \$500. Hart Freestyle Skis, Marker bindings and poles with size 9 mens boots. Never used, \$300. 18 x 120 Yokohama 520 MX Tire. Like new, \$30. Two, 14" Goodyear M & S Winter Radials. Used one winter. \$120. Please call Lisa at 5-2317.

Windsurfer. Hi fly 555 12' board, two sails: 6.0 mylar, 7.2 flathead. Nice, fun board. Complete, \$350. Please call Jim at 5-2329 or 589-6014.

US Silver coins. Good selection. Kennedy's, dollars, walking liberty's, dimes, nickels, commemoratives, pennies. Best Offer over \$800. Please call Jim at 5-2329 or 589-6014.

1988 Nissan Maxima SE. Loaded 5-speed. Air, cruise, am/fm cassette. Excellent shape, no rust, runs like a top. 87K. Best offer over \$7,900. Please call Jim at 5-2329 or 589-6014.

Looking for that specialty or show car? Here it is! 1979 Pontiac Trans Am Anniversary Edition. All original. Has all options. Automatic transmission. Always garaged and covered. 11,000 original miles. Asking \$13,000. Please call 546-4111 after 6:00 pm.

Wanted

Used Nordic Tracker reasonably priced. Please call 5-8002 or 687-2604. Ask for Marge.

12'-14' aluminum flat-bottom john boat. Please call Mark Fabrizi at 5-4262 or 546-8561 after 6:00 pm.

House or half of a duplex rental wanted for couple in August. We are looking for a 2-3 bedroom within about five miles of campus. We will look at lake properties, but generally do NOT want to be down the hill. Please call Lisa at 5-4153 or 257-9266 evenings.

Used cider/fruit press and crusher. Please call Maryanne at 5-5172 or 838-3567 evenings.

Antique wooden clothes cupboard/armoire for storing coats. Does not need to be fancy and we don't need to have until June. Please leave message at 277-2228.

Land alone or land with house in Groton or Dryden area. 15-30 acres. Please call after 6:00 pm at 564-9218.

Electric washer and dryer in good working condition. Please call Sharon at 5-4764 or 273-6034 evenings.

Male employee looking for a room in a house with grads or other professionals. Please call 272-5442 or 5-9749.

House rental wanted for very distinguished Russian Physicist in August, prefer lake or country setting. Contact Andre at 5-5169 or 277-6475 evening.

Desk top publishing services, all types of jobs. Pick-up and delivery available. Please call 277-6510.

For Rent

Only \$685 sublets my \$800 2-bedroom, 2-bathroom, town house. Fireplace, a/c, deck, parking. Woodsy, quiet setting, near Upper Buttermilk. Pets possible. Semi-furnished (negotiable). Renewal option. Please call 257-0202 evenings.

One bedroom efficiency cottage suitable for one person. 5 1/2 miles from Octopus on Taughannock Blvd. 20-minute drive to Cornell. Loft bed and desk available. No dogs. Non-smoker. Cozy, clean and quiet with lake view. \$325 plus utilities, 12-month lease. Please call 272-2039.

Very nice house in pretty, quiet downtown Ithaca neighborhood. Fireplace, beautiful oak floors, two bedrooms, two dens, breakfast nook, screened-in front porch, garage, fenced yard with garden. Convenient to CU, IC, Commons. \$650/plus; one-year lease. Available 1 May (negotiable). Call day 255-5134/eves 277-0749 (Also available with option to buy.)

2-bedroom mobile home, great condition, in trailer park, shed, trash pick-up, available immediately. References required! \$395/month excluding utilities. Security deposit. Please call 564-7024.

One bedroom, Ellis Hollow Road. Close to campus. \$425 includes heat. Please call 277-4630 evenings.

Quiet, two-bedroom apartment in the country, between Cortland and Groton. Living room, dining room, large kitchen and bath. Appliances, electricity, and water furnished. 24 miles to Cornell. No pets or smokers. \$425/month. Please call 838-8280 after 6:00 pm.

Miscellaneous

Staff members interested in ride sharing can place a free advertisement in *Networking* by mailing in advertisements. There are no services for commuting students. Please send your ad to: Ride Sharing, Office of Transportation Services, 116 Maple Ave, Cornell University, Ithaca, NY 14853. No phone calls, please.

Mother of one would like to provide loving, responsible child care in my home. Full or part-time. Dryden Lake area. Nice country setting. Plenty of other children to play with. Please call Tammy at 844-3575 evenings.

Free

Gray and white male rabbit. Lovable, great with kids, doesn't bite. Looking for a good, loving home. Please call Ed at 5-3247 or 315-497-0432 evenings.

Telex machine and printer in working condition. Please call Carmen at 5-8802.

skills and attention to details. On the job training will be provided. Send cover letter and resume to Sam Weeks.

Technician GR18 (T1105)
Nutritional Sciences- Statutory
Minimum Biweekly Salary: \$542.89
Posting Date: 3/19/92

Conduct behavioral experiments with rats involving the biology of cognitive processes. Operate and maintain a computer controlled, automated testing apparatus. Perform data entry and computerize statistical analysis. Supervise and train undergrads in research. **Requirements:** AAS degree preferably with research experience. BS degree desired. Experience with computers for data analysis preferable. Background in biopsychology and knowledge of statistics desirable. Excellent communication, organizational and interpersonal skills. Ability to work independently, to prioritize work, to work under pressure, and to meet deadlines. Accuracy a must. Send cover letter and resume to Sam Weeks.

Technician GR19 (T0903)
Entomology-Statutory
Minimum Biweekly Salary: \$566.28
Posting Date: 3/12/92

Provide research support studies of management of resistance to *Bacillus thuringiensis* (BT) toxins in sprays and transgenic plants including lab and field studies on Colorado potato Beetle and diamond back moth. Assist in experimental design. Assist in training temporary staff. Maintain insect colonies. **Requirements:** Associates in biology, entomology, genetics, or related discipline. Valid NYS drivers license; valid NYS Pesticide Applicator Certificate. Experience in one or more of the following highly desirable: insect rearing; experimental design and procedures; statistics; computer literacy; and experience with Colorado potato beetle and diamond back moth. Send cover letter and resume to Sam Weeks.

Technician GR19 (T1106)
Veterinary Pathology-Statutory
Minimum Biweekly Salary: \$566.28
Posting Date: 3/19/92

Provide technical assistance in carrying out various experiments using molecular, biochemical and cell biological methods. Perform routine tissue cultures including preparation of media and solutions. Prepare and monitor stock solutions and reagents. Participate in routine operation and maintenance of the lab. **Requirements:** BS degree or equivalent in biology, biochemistry, chemistry or related field preferred. AAS degree or equivalent required. Lab experience desired but not essential, on the job training will be provided. Send cover letter and resume to Sam Weeks.

Technician GR20 (T1401)
Clinical Sciences-Statutory
Minimum Biweekly Salary: \$590.45
Posting Date: 4/9/92

Provide technical support for researchers in immunological laboratory. Prepare tissue culture and bacteriological media, buffers and other precisely formulated reagents. Familiarity with handling techniques for cows and common laboratory animals to the extent that milk and blood samples can be obtained. **Requirements:** B.S. in biology or equivalent experience in microbiological techniques. 1-2 yrs. experience including handling laboratory animals and knowledge of laboratory procedures. Pre-employment physical required. Send cover letter and resume to Sam Weeks.

Technician GR20 (T1403)
Biochemistry, Molecular and Cell Biology-Statutory
Minimum Biweekly Salary: \$590.45
Posting Date: 4/9/92

Provide technical assistance doing molecular and cell biology research in a basic cancer research lab. Manage all lab operations including staff and expenditures. Perform research involving recombinant DNA, protein biochemistry and cell culture techniques. Maintain computerized databases. Variable hours.

Requirements: Bachelors degree or equivalent in biochemistry, molecular biology, chemistry or related field. 1-2 yrs. research experience in molecular biology and cell culture. Familiarity with personal computers. Must pass radiation safety course (training provided). Send cover letter and resume to Sam Weeks.

Animal Health Technician GR20 (T9003)
Veterinary Medical Teaching Hospital-Statutory
Minimum Biweekly Salary: \$590.45
Posting Date: 11/7/91

Provide technical support for the Community Practice Service within the Small Animal Clinic. Provide emergency care and routine care including medications, grooming, bathing, and cage cleaning when necessary. Maintain supplies and equipment. Educate clients while admitting patients, taking histories, discharging patients, and explaining techniques for outpatient treatment. Supervise animal health technician externs. Assist in paper work. Assist and train veterinary students.

Requirements: AAS degree in veterinary technology with AHT NYS licensure (or eligible). 1-2 yrs. experience in clinical envi-

ronment. Work with small animals preferred. Send cover letter and resume to Sam Weeks.

Technician GR21 (T1201)
Diagnostic Laboratory-Statutory
Minimum Biweekly Salary: \$615.42
Posting Date: 3/26/92

Perform a comprehensive range of microbiological and serological tests to aid in the diagnosis of viral and rickettsial infections in clinical specimens. Preparation of media, buffers, and other reagents. Performance of tissue culture, and fluorescent antibody tests. **Requirements:** Bachelors degree in microbiology, biology or related field. 1-2 yrs. related experience. Good sterile technique, experience with microscopy and virological procedures desired. Send cover letter and resume to Sam Weeks.

Technician GR21 (T1003)
Genetics and Development-Endowed
Minimum Biweekly Salary: \$615.42
Posting Date: 3/12/92

Provide technical assistance in a molecular biology lab. Perform experiments studying *Drosophila* and population genetics. Perform isolation, purification and molecular analysis of nucleic acids. Record data and assist in computer analysis. Contribute to the supervision of general lab functioning. Assist in teaching techniques to new personnel. **Requirements:** Background in molecular biology, biochemistry or genetics desirable. Previous lab experience and ability to work independently. Send cover letter and resume to Sam Weeks.

Technical Temporary Off Campus

Temporary Service Technician (T1103)
Entomology-Statutory
Hiring Rate: \$7.00
Posting Date: 3/19/92

In Orange and Ulster Counties (Tuesday-Thursday): Develop and conduct surveys on pesticide use in the non-agricultural sectors. Develop educational programs on how to interview and survey work for 4-H members. On the Cornell Campus (Monday and Friday): Summarize and interpret data. Assist in preparation of reports.

Requirements: Training and experience in data handling and computers desirable. Ability to interact well with Cornell faculty and staff, cooperative extension personnel and high school students. Valid NYS driver's license. Public speaking experience desirable. 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 EHP 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.

Personnel Assistant/Advertising Coordinator GR18 (C1403)
Office of Human Resources/Staffing Services-Endowed
Minimum Biweekly Salary: \$542.89
Posting Date: 4/9/92

Provide clerical support in the areas of recruitment, referral of applicant materials and data entry to the Staffing Specialist for Computer/Technical position; prepare and place ads; maintain advertising accounting records. Assemble materials and statistics related to technical recruitment. Perform as back-up receptionist.

Requirements: High School diploma or equivalent. 1-2 yrs. related work experience. Some college coursework. Familiarity with Cornell accounting helpful. Experience with Excel or similar spreadsheet desirable. Meticulous attention to detail. Excellent communication and interpersonal skills. Must be able to work under tight deadlines. Experience as receptionist desirable. Light typing. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza #2. Employees should include employee transfer application.

Secretary GR18 (C1404)
Family Life Development Center-Statutory
Minimum Biweekly Salary: \$542.89
Posting Date: 4/9/92

Secretarial and receptionist support to the

Family Life Development Center administration and program staff. Provide program support to several projects. Contingent upon funding until 9/30/92.

Requirements: High School diploma or equivalent. Some college coursework preferred. Apple Macintosh experience highly desirable. 1 yrs. related experience. Medium typing. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza #2. Employees should include employee transfer application.

Senior Circulation/Reserve Assistant GR18 (C1302)
Access Services/Library-Endowed
Minimum Biweekly Salary: \$542.89
Posting Date: 4/2/92

Responsible for renewal of loans for items on loan to library customers. Work at the circulations desk and perform a variety of other public services functions. Responsible for placing requests for materials located in Library Annex and processing these materials upon arrival at Olin.

Requirements: High School diploma or equivalent. Some college coursework preferred. 1-2 yrs. related experience. Organizational skills and aptitude for detailed work. Ability to work effectively with a variety of people in a public setting. Strong interpersonal and communication (oral and written) skills. Experience with microcomputers desirable. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza #2. Employees should include employee transfer application.

Administrative Aide GR19 (C1407)
Community and Rural Development Institute-Statutory
Minimum Biweekly Salary: \$566.28
Posting Date: 4/9/92

Edit Institute documents; manage Institute finances; maintaining computer databases; conference management; supervise work study students; write and design newsletter; handle correspondence; travel and meeting scheduling. Until March 1995.

Requirements: High school diploma or equivalent. Some college coursework preferred. 1-2 yrs. experience. Strong computer skills (word processing, database management, spreadsheet). Excellent communication (written and oral) skills. Financial management. Ability to handle logistics of large conference organization. Medium typing. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza #2. Employees should include an employee transfer application.

Secretary GR19 (C1405)
Modern Languages and Linguistics-Endowed
Minimum Biweekly Salary: \$566.28
Posting Date: 4/9/92

Provide administrative and clerical support for the faculty and staff of the full year Asian language concentration (FALCON) program, East Asian language courses, and special summer program offerings. Responsible for maintenance of program records. Provide support services in the DMLL main office.

Requirements: High school diploma or equivalent. Some college coursework preferred. 1-2 yrs. related office experience. Excellent interpersonal and organizational skills. Ability to communicate with people from different cultures, independently and under pressure. Knowledge of Macintosh computer programs essential. Medium typing. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza #2. Employees should include employee transfer application.

Secretary GR19 (C1304)
Floriculture and Ornamental Horticulture-Statutory
Minimum Biweekly Salary: \$566.28
Posting Date: 4/2/92

Serve as secretary for undergraduate instruction and the urban horticulture institute. Provide word processing support for 5 faculty and their support staff. Duties include preparation of classwork, manuscripts, proposals, research reports, correspondences and other related materials in support of teaching, research and extension functions.

Requirements: High School diploma or equivalent. Some college course work preferred. 1-2 yrs. secretarial experience. Knowledge of IBM PC or compatible and WordPerfect software required; database and spreadsheet software desired. Familiarity with network systems a big plus. Regular CU employees only. Heavy typing. Send employment transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza #2.

Relief Night Auditor/Night Manager GR19 (C1201)
Statler Hotel-Endowed
Minimum Biweekly Salary: \$566.28
Posting Date: 3/26/92

Review, verify and record hotel revenue; generate report through property management systems as required by management; perform duties of night manager in relief; coordinate and participate in front desk, concierge and bellman activities to provide quality guest service. Full-Time, regular position, nights 11:00 PM - 7:30 AM.

Requirements: High School diploma or equivalent, some college coursework in ac-

counting preferred. Hotel experience desirable and knowledge of computers essential. Excellent interpersonal and communication skills. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza #2. Employees should include an employee transfer application.

Administrative Aide GR20 (C1408)
Law-Endowed
Minimum Biweekly Salary: \$590.45
Posting Date: 4/9/92

Provide secretarial and administrative support to the Director of Administration and Finance, the Assistant Director of Personnel and the Facilities Manager. Serve as Telecommunications Coordinator. Responsible for maintaining personnel records and providing payroll support. Provide back-up secretarial support for the Office of the Dean of the Law School.

Requirements: AAS degree or equivalent. 3-4 yrs. related office experience. Ability to work independently, exercise good judgment, coordinate and prioritize multiple tasks. Must be able to work efficiently under pressure with frequent interruptions. Excellent communication (written and oral) skills a must. Computer experience required with a high degree of proficiency using various software packages (IBM preferred). Absolute confidentiality required. Heavy typing. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza #2. Employees should include employee transfer application.

Copy Cataloger GR20 (C1305)
Albert R. Mann Library-Endowed
Minimum Biweekly Salary: \$590.45
Posting Date: 4/2/92

Catalogs monographic publications, including electronic resources with library of congress and member library contributor copy or does original cataloging based on earlier editions. Maintains subject and authority records online; must exercise considerable judgment in applying cataloging standards. Responsible for a high degree of accuracy and control of details; work is usually not subject to review by others.

Requirements: Associates degree plus 2-3 yrs. previous experience in a research library required. Additional related experience may be substituted for formal degree. Medium typing/data input. Ability to use microcomputer and some applications software. Strong organizational skills and ability to prioritize. Good interpersonal and communication skills. Some foreign language skills desirable. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza #2. Employees should include employee transfer application.

Secretary GR20 (C1307)
University Relations-Endowed
Minimum Biweekly Salary: \$590.45
Posting Date: 4/2/92

Provide administrative support in the office of the vice president for university relations. Word process and distribute correspondence and other materials; design and maintain office databases using Filemaker Pro; manage complex filing system; assist callers form on-campus and off-campus.

Requirements: AAS degree or equivalent. 2-3 yrs. secretarial experience. Knowledge of Cornell preferred. Excellent word processing skills (preferably Microsoft Word). Knowledge of and attention to proper spelling, grammar, and punctuation. Excellent organizational skills. Experience with computers (preferably Macintosh) and data base software (preferably FileMaker Pro). Excellent telephone manner. Heavy typing. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza #2. Employees should include employee transfer application.

Audio-Visual Aide GR20 (C1111)
Unions and Activities, Cornell Cinema-Endowed
Minimum Biweekly Salary: \$590.45
Posting Date: 3/19/92

Train, supervise and schedule student projectionists, handle routine maintenance and equipment problems in 3 theaters; order all projection supplies; project films 2-4 nights per week. 11 month position, mostly nights and weekends.

Requirements: A.A.S. or equivalent 1-2 yrs. related experience. Knowledge of operation and maintenance of professional motion picture and video equipment, in all formats, preferred. Experience at supervising and training students. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza #2. Employees should include employee transfer application.

Accounts Coordinator GR22 (C1401)
Electronic Packaging Alliance/SRC-Endowed
Minimum Biweekly Salary: \$641.92
Posting Date: 4/9/92

Supervise the research accounts of the Industry-Cornell University Alliance for Electronic Packaging and the SRC Packaging Program. Perform other administrative duties as necessary.

Requirements: Associates degree or equivalent. 3-4 yrs. related experience. Experience with Cornell accounting procedures absolutely necessary. Experience with IBM-PC software desirable. Must be able to

work within time constraints and be proficient typist. Excellent interpersonal skills and ability to work independently is necessary. Medium typing. Regular CU employees only. Send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza #2.

Assistant Costume Shop Manager GR23 (C1406)

Theatre Arts-Endowed

Minimum Biweekly Salary: \$669.23

Posting Date: 4/9/92

Assist Costume Shop Manager in all phases of shop operations in constructing costumes for theatre productions. Purchase supplies and materials, monitor budgets and inventory; draft and drape patterns, construct costumes; assist with the supervision of student personnel.

Requirements: BA in theatrical costuming. Theatrical costume construction, patterning skills, costume crafts-dyeing, millinery, tailoring, etc. Experience operating costume shop equipment. Budgeting and supervisory experience. Good interpersonal skills. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza #2. Employees should include employee transfer application.

Administrative Aide GR24 (C1301)

Veterinary Administration-Statutory

Minimum Biweekly Salary: 4/2/92

Posting Date: 4/2/92

Provide administrative/clerical support to the Associate Dean for veterinary education, and on occasion, to the dean of the college of veterinary medicine.

Requirements: High School diploma. College experience highly desirable. 3-5 yrs. experience as a secretary or administrative assistant. Superior interpersonal and organizational skills. Demonstrated ability to work in busy executive office and work effectively with other administrative secretaries in the same environment. Manage ambitious work schedule. Advanced computer knowledge for word processing, spreadsheets, graphs and tables. Compose documents. Knowledge of Medline, Agricola, Biosis databases. Medium typing. Regular CU employees only. Send cover letter, resume, employee transfer application to Esther Smith, Staffing Services, East Hill Plaza #2.

Accounts Coordinator GR25 (C1306)

Accounting

Minimum Biweekly Salary: \$733.21

Posting Date: 4/2/92

Management of a two person team to provide accurate fund management, support and services to the Cornell Community and external funding sources in post-award administration of restricted fund accounts. This involves management of 1000-12000 accounts with approximately 30-35 million dollars in annual revenue.

Requirements: BS in accounting or a combination of education and equivalent experience. Training and/or experience in grant/contract accounting and/or fund accounting. Proven skills in computer systems managerial reporting including a working knowledge of Lotus 1-2-3 (Symphony), FoxPro, Microsoft Word. Strong (Written/Verbal) Communication skills required. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza #2. Employees should include employee transfer application.

Office Professionals Part-time

Nursery School Teacher (C1204)

Unions and Activities/University Cooperative Nurser School

Posting Date: 4/2/92

In charge of afternoon program of parent cooperative nursery school. Responsible for curriculum and teaching of class of 10 four and five year olds.

Requirements: Bachelors degree, experience required, previous coursework in early childhood education desirable. Experience teaching 3-5 yr. olds mandatory. Send cover letter and resume to Sally Reimer, University Cooperative Nursery School, Box 18, Robert Purcell Union.

Audio-Visual Aide GR20 (C1111)

Unions and Activities, Cornell Cinema-Endowed

Minimum Full-time Equivalent: \$590.45

Posting Date: 3/19/92

Train, supervise and schedule student pro-

jectionists, handle routine maintenance and equipment problems in 3 theaters; order all projection supplies; project films 2-4 nights per week. 11 month position, mostly nights and weekends.

Requirements: A.A.S. or equivalent 1-2 yrs. related experience. Knowledge of operation and maintenance of professional motion picture and video equipment, in all formats, preferred. Experience at supervising and training students. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza #2. Employees should include employee transfer application.

Office Professionals Temporary

Temporary Field Assistant (S1304)

Plant Breeding

Posting Date: 4/2/92

Work on alfalfa breeding project. Involves both greenhouse and field work: planting, cultivating, transplanting and harvesting alfalfa trials and experimental plots in the Ithaca area.

Requirements: Must have a NYS valid drivers license. High school education, able to lift 50 lbs. Must be able to operate farm tractor. Should know how to operate cultivators and harvest equipment. Must be dependable and able to follow directions. Please send application materials to Karen Raponi, Staffing Services, East Hill Plaza #2.

Cashier/Data Entry (S1107)

Ornithology

Casual Appointment

Posting Date: 3/26/92

The Crows Nest Birding shop is seeking an individual to perform data entry and cashiering duties. Answer phones. Must be very customer service oriented. Please send cover letter and resume to Karen Raponi, Staffing Services, East Hill Plaza #2. Hours are Saturday and Sunday 10am-4pm. Monday 7pm-9pm. Other weekday hours as needed.

Temporary Field Assistant (T0802)

Entomology-Statutory

Hiring Rate: \$5.50

Posting Date: 2/27/92

Assist the farm manager in operating the departmental research farm. Includes tillage, planting, maintenance, and harvest of field plots for research on vegetables and field crops. Assist in maintenance of the grounds. Assist in repair and maintenance of farm machinery and facilities.

Requirements: NYS class 3 operators license and pesticide applicator certification (commercial category) desirable, but not essential. Experience in operation and maintenance of farming equipment including tractors and ground contact implements. Ability to operate hand and power tools. Send application materials to Karen Raponi, Staffing Services, East Hill Plaza #2.

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 EHP 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.

Senior Instrument and Controls Mechanic/Operator (G1401)TO07

Utilities-Endowed

Posting Date: 4/9/92

Maintain, repair, and calibrate the state of the art Utility Plant instrument and computer control systems. Perform electronic, electrical, and mechanical trouble shooting and maintenance on utility plant equipment necessary to assure continued and efficient operation of plant functions.

Requirements: Associates degree in Electrical, Electronics or Electromechanical Technology, or equivalent, required. 3-5 yrs. related experience in utility plant electric and solid state electronic controls preferred. Control system operation and maintenance desirable. Experience with control computer

systems and personal computers desirable. Demonstrated ability to troubleshoot equipment and system problems. Ability to learn new technologies required. Must maintain a valid New York State drivers license. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza #2. Employees should include employee transfer application.

Life Safety Specialist II GR22 (G1301)

Life Safety Services-Endowed

Minimum Biweekly Salary: \$641.92

Posting Date: 4/2/92

Respond to all on/off campus emergencies occurring in University structures. Basically work is unsupervised, and must exercise a high degree of self reliance, sound judgement, initiative and motivation. Shift work which includes weekends and holidays.

Requirements: Associates degree. Bachelors degree preferred. Minimum 3yrs. experience in campus setting. Mechanical aptitude. Valid NYS drivers license. Good (oral and written) communication skills. Working knowledge of fire suppression, rescue and fire prevention activities. 1st aid, CPR Certification. Must pass extensive background check, pre-hiring physical and annual physical. Must be acquainted with computer keyboard. Send cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza #2. Employees should include employee transfer application.

General Service

Send application materials for the following positions to Cynthia Smithbower, Staffing Services, 160 Day Hall.

Greenhouse Worker SO06 (B1302)

Floriculture and Ornamental Horticulture-Statutory

Hiring Rate: 4/2/92

Posting Date: 4/2/92

Perform greenhouse operations for maintaining plant growth and research experiments in support of teaching, extension and research programs for members of the plant science greenhouse consortium range. Some mechanical fabrications, maintenance and repair.

Requirements: Associates in horticulture or greenhouse management or equivalent; state certification for pesticide applications or ability to obtain, valid drivers license. Knowledge of plumbing, heating, cooling and ventilation as it pertains to setup and design of research projects. 1 yrs. experience in general greenhouse operation and repair. Send cover letter and resume to Cynthia Smithbower.

Academic

Post Doctoral Associate Microbiology, Immunology, and Parasitology

Posting Date: 4/2/92

Primary skills desired are experiences with molecular biology techniques (RNA purification, mRNA separations, hybridization, autoradiography, probe labeling etc.), cell culture techniques and in vitro immune response assays. Also desirable are experiences in flow cytometry, ELISA, computer usage, data handling and data analysis. Ability to work independently as well as with technicians and students and contribute to overall research effort of the laboratory. Please furnish references from previous experience.

Salary: Negotiable, dependent upon training and experience.

Dates Available: Mid-April until end of August (possibility of a longer-term position for candidate with appropriate training).

Contact: James A. Marsh, Department of Microbiology, Immunology, and Parasitology, 204 Rice Hall, Cornell University, Ithaca, NY 14853.

Extension Administrator

Location: Cornell University, Ithaca, NY

Posting Date: 4/2/92

Provide leadership for ensuring that quality nonformal educational programs are developed, delivered, evaluated and marketed to diverse audiences throughout New York State. Provide leadership and support for campus and Cornell Cooperative Extension Association work related to vision, scope and direction of educational programs to improve the human condition. Encourage collaborative efforts between faculty and off-campus staff to address contemporary human well-being issues. Work with state and national agencies and organizations and local associations on issues of common concern. Recruit and participate in screening of candidates to be recommended for Cornell Cooperative Extension association positions. Report to the Associate Director-Cornell Cooperative Extension.

Minimum Requirements: An earned Doctorate appropriate to the responsibilities of the position. At least one degree in human ecology/home economics with specialization in nutrition and health or human development or family resource management. Six years of progressively responsible professional experience with three years of substantive management responsibility. **Desirable:** Coursework in program administration, adult education, or human services. 3 yrs. experience in Cooperative Extension or related area.

Salary: Commensurate with Qualifications. To apply, send letter of intent; current resume which includes responsibilities and accomplishments for each significant position; and names, addresses, and telephone numbers of four references by May 1, 1992 to: Mary Lou Brewer, Assistant Director, 354 Roberts Hall, Cornell University, Ithaca, NY 14853, (607)255-2231.

CORNELL Employment News

EDITOR: Nancy Doolittle

PAGE LAYOUT: Cheryl Seland
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Mail subscriptions available US delivery first class mail at: \$12.00 for 3 months; \$18.00 for 6 months; or \$26.00 for 12 months. Make checks payable to: Staffing Services Subscription, 160 Day Hall, Cornell University, Ithaca, NY 14853.

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, sexual orientation, 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.