

CORNELL CHRONICLE

Volume 22 Number 2 September 6, 1990



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Sea science

Shoals Marine Lab marks its 25th anniversary of teaching undergraduates

Biologist David Campbell held up the glistening, rectangular horned eggs for the visitors to see. The mother, a tan skate with the scientific name *Raja ocellata*, flapped her fins languorously in the shallow water of the troughed laboratory sea-table, nudging the edge.

The captured skate had produced the exotic brown eggs quite unexpectedly during the night, Campbell explained to the visitors. The eggs had been discovered that morning amid the tangle of kelp and seaweed on the water-filled examination table.

Campbell also gently extracted algae, kelp, an urchin, a crab, a lobster and other creatures from the table's trove, which he passed from visitor to appreciative visitor. He displayed colonies of tiny sea animals called bryozoans that had recently arrived from Europe to encrust local kelp; he demonstrated how to tell a male lobster from a female; he showed how mussel shells provided an anchor for kelp.

This sensory-intellectual adventure through the creatures of the intertidal zone was a fitting highlight of Shoals Marine Laboratory's 25th anniversary celebration on Aug. 21. After all, Shoals' hallmark has been giving students an intimate, affecting exposure to the range of life on Maine's Appledore Island and the ocean around it.

The laboratory was established by Cornell plant biology Professor John Kingsbury, who chose the site leased from a private corporation.

For the 200 guests, the daylong celebration also featured the salutatory presence of four tall sailing ships in the island's main cove and cruises on the Shoals research vessel, the John M. Kingsbury. The guests learned about island history and archaeology, saw how birds are banded and were treated to a dinner of shark and mussels.

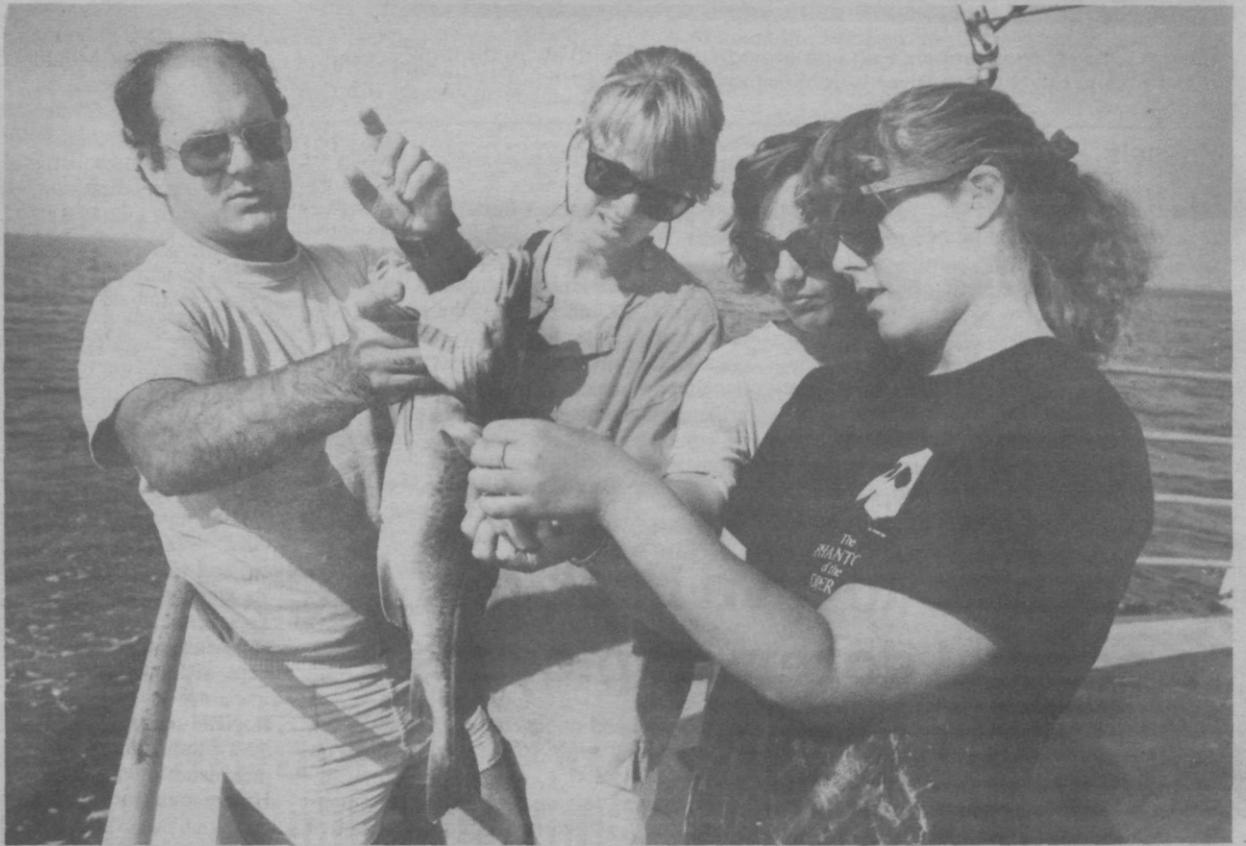
The celebration honored the educational success of what is by far the largest program in the nation offering undergraduate marine-science field courses for credit. The laboratory has launched hundreds of students on marine-oriented careers. What's more, it has instilled in hundreds more future leaders an appreciation of the importance, complexity and fragility of the world's oceans.

However, the anniversary also reminded visitors of the challenges to the world's oceans and to educational facilities such as Shoals, said laboratory director John B. Heiser.

The interconnected oceans are the Earth's circulatory system, he noted in an interview, and humans continue to exploit and pollute that system with far too little understanding of the consequences.

"Seventy-three percent of the Earth's surface is covered by the seas," said Heiser, "and two-thirds of the population lives on the 3 percent of land that is the coastal zone."

"It is unconscionable that we are not trying to interest the best minds in the marine sciences," he said, pointing out that more students take introductory biology in one semester at Cornell than learn about marine science at oceanside



Photographs by Tim Moers

Dave Campbell (left), coordinator of the marine science class, examines a cod with students (from left) Meredith Avery of the University of New Hampshire, Tyler Joscelyn from Mount Holyoke College and Lisa Weetman from California Polytechnic State University aboard the John M. Kingsbury (below).

teaching laboratories throughout all of North America.

But "even when our students decide not to become marine scientists, we have given future doctors and lawyers and politicians an empathy for and understanding of the oceans and their interaction with humanity. They will be in key positions to make the decisions that will affect the oceans in the next century," Heiser said.

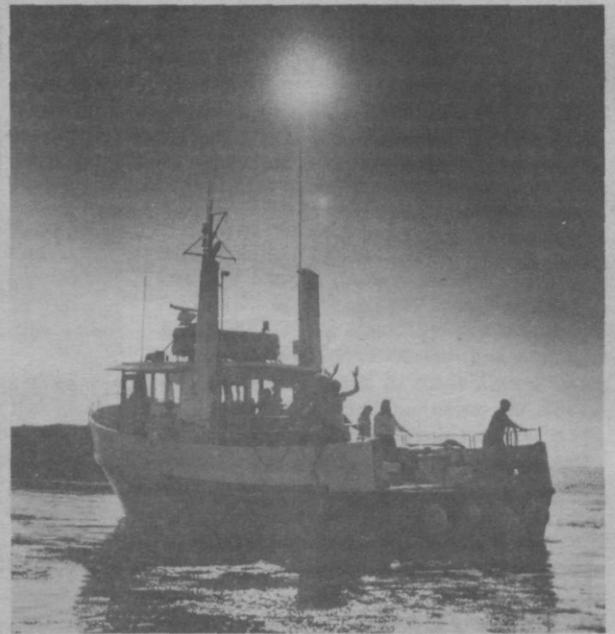
Invariably, such marine laboratories have offered courses that anticipate important societal needs, Heiser added. He cited a Shoals course on marine pollution and another on marine economics, which included a cost-benefit analysis of maintaining oil-spill equipment along coastlines. Both courses were created years before the recent huge oil spills off Alaska and Texas.

Also, Heiser and his colleagues are now redesigning a course in marine microbiology, one that they consider vital to exploiting the rich genetic diversity of the oceans for advanced biotechnology.

Besides learning science, said Heiser, students at Shoals also learn an environmental ethic:

"We're the only such facility on an isolated offshore island. Here, the students have to lift everything that goes on-island. They see how we sort and recycle trash and how water use is restricted because of our one small well."

Continued on page 6



Faculty to hear Rhodes Sept. 19

President Frank H.T. Rhodes will deliver his state-of-the-university address at a joint meeting of the University Faculty and the Faculty Council of Representatives on Wednesday, Sept. 19.

The meeting will begin at 4:30 p.m. in 120 Ives Hall.

Dean of the Faculty Walter Lynn said that it is likely that Rhodes will focus upon Cornell's current financial concerns and their impact upon the faculty's teaching and research roles.

Unmanned sub joins fight against z-mussels

While a hard-shelled invader called the zebra mussel continues its invasion of North America's waterways, engineers here are ready to equip remotely operated submarines to scour away the pests in the same way that surgeons remove plaque from blood vessels.

"Right now, the r.o.v. [remotely operated vehicle] is little more than a swimming eyeball," said Samuel Landsberger, the assistant professor of mechanical and aerospace engineering who sends the university's video-equipped submarine into the Niagara River in search of zebra mussels that cling to water-supply lines.

"We think we can adapt commercially available r.o.v.'s with attachments that remove zebra mussels and perhaps vacuum them away," he said.

Zebra mussels are freshwater mollusks that are native to Europe. Since stowing away in ships bound for the Great Lakes in the late 1980s, zebra mussels have been unexpectedly successful in colonizing the intake pipes of municipal water suppliers.

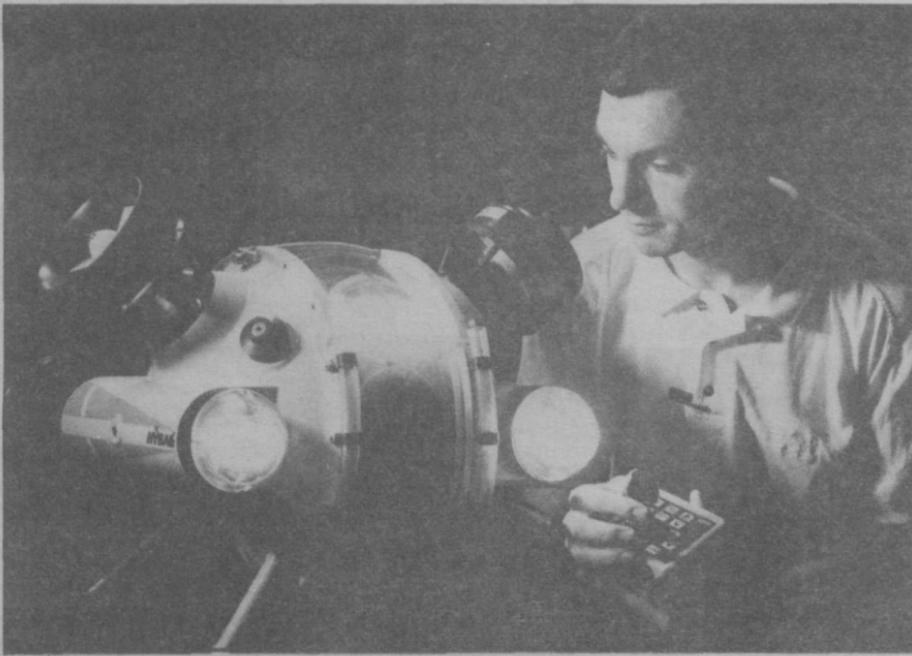
They thrive in moving water, reproduce rapidly and cling in multilayer encrustations to virtually any underwater surface. Besides clogging intake pipes of water suppliers, power generators and industries, the hardy zebra mussels could disrupt fishing and recreation industries throughout North America.

Cornell engineers are joining a collaborative research effort — with New York Sea Grant, Ontario Hydro, Niagara Mohawk Power Corp., Erie County Water Authority and the University of Buffalo — to

study the basic biology of the striped invaders and to develop means of controlling them. So far, the Cornell r.o.v. has succeeded in swimming through the intake pipes of the Erie County Water Authority, which draws water from the mussel-infested Niagara River, and sending back video pictures of mussels that line the pipes like barnacles on a ship's hull.

At the same water supply facility in Tonawanda, N.Y., John Van Benschoten, a University of Buffalo professor of civil engineering, is raising zebra mussels in laboratory tanks, then trying to kill them. Van Benschoten reports that chlorine in water is "very effective in controlling the larval stage of zebra mussels in low concentrations — between 10 and 100 per quart of

Continued on page 2



Chris Hildreth

Samuel Landsberger prepares an unmanned submarine to swim through a water-intake pipe in the Niagara River to look for zebra mussels.

Mussels *continued from page 1*

water." But zebra mussel larvae are found in much higher concentrations — between 10,000 and 100,000 per quart — and there are concerns about the toxic effects of adding more chlorine to water supplies, the Buffalo engineer said.

The Erie County project will include testing of ozone and hydrogen peroxide to kill the animals, Van Benschoten said. Elsewhere, engineers and marine biologists are experimenting with high-pressure water sprays to remove mussels and electrical

charges to discourage them. At the water supply for Erie, Pa., SCUBA divers with putty knives scrape away the zebra mussels, a temporary and costly solution.

Cornell's Landsberger proposes an r.o.v. that would work without spreading toxic chemicals and would swim through facilities that are unsafe for divers. Working with graduate students in engineering, he plans to enhance the capabilities of unmanned submarines.

—Roger Segelken

CU agrees to give back-pay to several dozen employees

A dispute over implementing the contract between Cornell and United Auto Workers Local 2300 was resolved in favor of the union last week, and Cornell has agreed to pay back-wages to several dozen affected employees.

"The issue was complex and technical and, as the arbitrator herself noted, both sides acted in good faith to seek an interpretation," said Thomas M. Santoro, associate counsel for Cornell.

"Although we thought our interpretation was persuasive," Santoro added, "the arbitrator's decision is well reasoned, and the university is satisfied."

Arbitrator Marjorie F. Gootnick, who undertook the mutually agreed upon binding arbitration for the American Arbitration Association, said in her decision released Aug. 31 that she found "that the position of both parties in this dispute reflects their good-faith understanding of the disputed language."

The UAW represents about 1,100 maintenance and service employees out of Cornell's work force of about 9,000. In July 1988, the union and Cornell signed a four-year contract that included a new step system, which provides for pay increases based both on annual increments available

to everyone and on an employee's advancement within levels (or "steps") based on years of service.

What was left unclear in the new system's language, Santoro said, is how to determine pay increases for employees promoted to new levels after the contract took effect.

The arbitrator's decision favors the union's interpretation, which will mean back-pay for more than 30 employees promoted during the first two years of the contract; it will also mean different increases in the contract's remaining 22 months when future promotions are involved.

"The dollar cost above Cornell's expectations hasn't been worked out yet," said E. Peter Tufford, associate director of the Office of Human Resources. He added that for affected individuals, the difference could mean hundreds or perhaps more than a thousand dollars.

"We're not disturbed, and we certainly don't see this as Cornell losing a fight," Tufford said.

"Both parties were pleased with the agreement we negotiated two years ago, but it turned out that we had honest differences over interpreting this language. We accept the ruling in a spirit of good faith."

BRIEFS

■ **Memorial:** A memorial fund is being established in honor of Gerald J. Menotti, 35, who died on July 27 at Tompkins Community Hospital after a long illness. He was the computer-systems manager at the Gannett Health Center since 1982. A tree will be dedicated in his memory at Cornell Plantations on a date to be announced. Memorial contributions may be sent to the Cornell Plantations, 1 Plantations Road, in care of Debbie Donk.

■ **New coaches:** One new head coach and five assistant coaches have been named by Laing Kennedy, director of athletics. Dorothy Diggs has been appointed head coach of women's ice hockey. A 1989 graduate of Colorado College, she was an assistant coach at Bowdoin College last year. The assistant coach appointments were: in men's basketball, Tyrone Beaman, former coach at Monroe Community College in Rochester; in women's soccer, Kathryn Brawn, former coach at Princeton and Yale; women's field hockey and lacrosse, Elizabeth Briggs Couch, former coach and mathematics teacher at Greenwich Country Day School in Greenwich, Conn.; and men's hockey, Mark Taylor, former assistant coach at the University of Vermont. Michael Sheffer, who has coached at Spencer-Van Eitten Junior-Senior High School, has been named a volunteer assistant coach of basketball.

■ **Campus Club:** The Campus Club will hold its annual welcoming tea for newcomers on Thursday, Sept. 13, from 1 to 3 p.m. in the lounge of Robert Putcell Union. All women in the Cornell community are invited — faculty and faculty wives, employees and wives of employees, women graduate students and wives of graduate students. To reserve free baby-sitting during the tea, call Martha Parks at 277-4254 by Monday, Sept. 10.

■ **NEH deadline:** Faculty and academic staff applications for a 1991 summer stipend from the National Endowment for the Humanities worth \$3,750 for two months of full-time study or research must be submitted by 3 p.m. on Monday, Sept. 10, to Associate Dean Lynne Able, Academic Advising Center, 55 Goldwin Smith Hall, telephone 255-3386.

■ **Folk guitar:** Registration for folk-guitar lessons given annually at Willard Straight Hall will be held on Monday, Sept. 10, at the first of the eight one-hour lessons in the series. Beginning classes start at 7 p.m. and intermediate classes start at 8 p.m. The series costs \$35. Lessons are in the North Room of The Straight. For more details, call Phil Shapiro at 844-4535.

■ **Mellon grant:** Cornell Medical College, The Rockefeller University and Memorial Sloan-Kettering Cancer Center have received a joint \$1 million grant from the Andrew W. Mellon Foundation to support tri-institutional programs for students pursuing both M.D. and Ph.D. degrees. Dr. G. Tom Shires, dean of the Medical College, said that the grant "is especially welcome" since the number of students seeking careers in

medical research has been declining nationally.

■ **Breakfast with Rhodes:** There are a limited number of openings for Cornell students to have breakfast with President Frank H.T. Rhodes during the fall term. Those interested should call 255-5201 to make a reservation. The breakfasts are held from 7:30 to 8:30 a.m. in the Elmhirs Room of Willard Straight Hall. Those with reservations will be reminded by mail.

■ **Water notice:** By requirement of the New York State Health Department Sanitary Code, Section 5-1.33: "The Cornell Department of Utilities shall accept public comment on the Water Supply Emergency Plan for at least 14 days following the date of first publication [Thursday, Sept. 6]. The plan is available for review and comment at the Water Filtration Plant, 101 Caldwell Road, Ithaca, N.Y. 14853, during the hours of 9 a.m. to 3 p.m., Monday through Friday." Douglas R. Clark, manager of the water plant, explained that the plan has been developed in coordination with the other major water-supply systems in Tompkins County to respond to potential interruptions in water supply from breaks in supply mains, infiltration of pollutants, natural disasters and pumping-station breakdowns, among other reasons.

NOTABLES

A BBC nature film featuring the research of Stephen T. Emlen and Peter H. Wrege, "The Bee Team," won the top award for commercial productions at the Seventh Annual Film Festival of the Animal Behavior Society in June. Emlen, a professor of neurobiology and behavior, and Wrege, a research associate in the section, study the social systems of animals that display altruistic (or helping) behavior, including birds called white-fronted bee-eaters. "The Bee Team" was filmed in Kenya's Lake Nakuru National Park for the British Broadcasting Corporation and has been shown several times on PBS stations in the United States as well as throughout Europe and Central America. A total of 30 commercial and six amateur films were submitted for judging at the festival.

Five Cornell faculty members were among the some 160 mathematicians invited to give papers at the International Congress of Mathematicians in Kyoto, Japan, Aug. 21-29. The five Cornell faculty were professors of mathematics Dan Barbasch and Richard T. Durrett, professor of theoretical and applied mechanics Philip Holmes, and James Renegar and Eva Tardos, both assistant professors of operations research and industrial engineering. In addition, one of the plenary speakers before the congress, which meets every four years, was the Hungarian mathematician Laszlo Lovasz, one of Cornell's Andrew D. White Professors-at-Large.

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Cornell University is committed to assisting those persons with disabilities who have special needs. A brochure describing services for the handicapped student 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 be directed to that office.

GRADUATE BULLETIN

■ **Late registration:** Register at the Graduate School and the Registrar's Office, 222 Day Hall.

■ **Enrollment:** Course enrollment continues through Sept. 21. Forms are available at graduate field offices and Sage Graduate Center. Students who completed precourse enrollment forms last spring do not need to complete a course enrollment form; if there is a change in their schedule, they must complete a course drop-and-add form.

■ **Committees:** Bring completed special committee selection and change form to Sage Graduate Center by Sept. 21. Check with your field regarding the number of faculty signatures required.

■ **Fee deadline:** The \$200 active file fee for fall 1990 will not be charged to Ph.D. candidates who are not registered if they complete all degree requirements by Sept. 21, including defense and submission of the final copies of the dissertation.

■ **Faculty meeting:** A faculty meeting will be held Friday, Sept. 7, at 4 p.m. in the

General Committee Room, Sage Graduate Center, to vote on August degrees.

■ **T.A. workshop:** A teaching assistant workshop will be held Saturday, Sept. 15, with a follow-up Saturday, Oct. 13. Registration forms are available at graduate field offices or B41 Day Hall. Phone 255-8427 for information.

■ **Travel:** Conference travel grant applications are due at the Graduate Fellowship and Financial Aid Office, Sage Graduate Center, by Oct. 1 for November conferences. Application forms are available at graduate field offices. Grants for transportation are awarded to registered graduate students invited to present papers.

■ **Workshop:** A workshop on dissertation writer's block starts Sept. 11 and continues on Tuesdays, from 3:30 to 5 p.m. The workshop is facilitated by Jerry Feist, director of psychological services, and is sponsored by the Dean of Students Office. Register by Sept. 10 at the Dean of Students Office, 103 Barnes Hall, 255-3608.

Let's go Red!



David Lynch-Benjamin

Chris Allinger of radio station Q-104 holds a screaming contest with freshmen during a pep rally called Big Red Hysteria at Alberding Field House during new-student orientation activities. The program also included the showing of a Cornell sports-highlights film.

British scholar here this month as professor-at-large

British legal scholar Geoffrey Marshall is the first of at least three A.D. White Professors-at-Large scheduled to visit campus this fall.

Marshall will give a public lecture on "Constitutional Privacy: Who Can Do What, When and How?" on Thursday, Sept. 13, at 4:30 p.m. in the Moot Court Room of Myron Taylor Hall.

A fellow of Queens College, Oxford, and considered to be Britain's leading constitutional theorist, Marshall will be on campus from Sept. 10 through 24. It will be his fourth and final stay on campus as an A.D. White Professor-at-Large.

Marshall will hold office hours in 320 Myron Taylor Hall. For appointments, call 255-5883.

Also scheduled to visit campus this fall are:

- Monkombu Sambasivan Swaminathan, one of the world's leading agricultural scientists and president of India's National Academy of Sciences.

- Barbara Johnson, professor of Romance languages and comparative literature at Harvard University.

Swaminathan will give a public lecture on Thursday, Oct. 4, at 3:30 p.m. in Alumni Auditorium on "Some Critical Issues in Global Agriculture."

Johnson is scheduled to give a public lecture, also on Thursday, Oct. 4, at 4:30 p.m. in Kaufmann Auditorium on "Mirror Stages: Psychoanalysis and Afro-American Literature."

Three scholars were named professors-at-large, effective July 1. They are: Geoffrey Ernest Richard Lloyd, professor of ancient philosophy and sciences, Cambridge University; conservationist and writer Norman Myers; and scientist John Shipley Rowlinson.

Andrew Dickson White was Cornell's co-founder and first president. The professors-at-large program was founded in 1965 to give the university's intellectual and creative community direct access to scholars from all parts of the world.

—Martin B. Stiles

Theodore J. Lowi

Political scientist seeks immortality through his writing

When Ted Lowi was 19, he nearly lost his life. He's lived, he says, in a state of euphoria ever since. And now, he wants immortality.

"I'm a real psychological study," said Lowi, 59, who last month became president of the American Political Science Association; has held Cornell's only university chair, the John L. Senior Chair in American Institutions, since 1972; and once was voted the top-ranked political scientist in America by his colleagues.

"I want to see my name in the card catalog; I want my books to stay in print. It's ego," he said. It's also a matter of power. As his studies concentrate on the development and use of power by institutions, Lowi's personal quest is focused on the exercise of power through ideas expressed in books.

While growing up in Gadsden, Ala., in the 1930s and 1940s, "whatever there was to do, I had to be in the middle of it," Lowi recalled in a recent interview. "I was hyper to get things done; to run the high school class [he served as president for four years]; to run the football team [he was a lineman who gave plays in the huddle]; to run the band [he was an oboe-playing first-chair.] It was pure nervous conscientiousness. I was running in high gear from 1931 to 1950."

Then, while in his second year at Michigan State University, Lowi's nerves caught up and his running stopped. He developed an ulcer. It would restrict him to a hospital bed with incessant pain for two years, cause a drop in weight from 180 to 90 pounds and nearly kill him.

"It was the kind of thing that, after the fact, doctors could have said, 'He was the perfect candidate for that,'" Lowi said.

Near-death turned out to be his most life-changing experience, partly because of a discovery during the illness ("Thank God there was no TV, so I read compulsively. I started reading seriously as a way of life.") and partly because of the sudden change that surgery brought.

"The absence of pain was dramatic. It was euphoric," Lowi said. "And I have lived in a state of euphoria ever since. I'm serious. It's not happiness; I don't believe in happiness. I believe in work, productivity, in a state of well-being. I've had that since that day in March of 1952," Lowi said. If people sense a Pollyanna quality about him at times, he said, that's where it



Theodore J. Lowi

Charles Harrington

comes from.

When Lowi returned to Michigan State, he was older, better-read and more serious about learning and the influence it might bring. His professors encouraged him to go to graduate school. "When they asked what I wanted to do, I said I wanted to go back and change the South," he said.

Racism in the South had become all the more loathsome to Lowi because he lived for a time without recognizing it. "As a youngster, I didn't know black people were in an unhappy state," he said. But then in 1948, when Lowi was 17, the Dixiecrat Party was formed by the southern wing of the Democratic Party, ran its own presidential candidate and made race an issue. It

also made the future professor see racism, study racism and feel racism for the first time.

"I got ashamed. . . . That sense of shame has never left me. The history of race in America; that shames me more than individual acts of injustice," he said.

His Michigan State professors, however, dissuaded Lowi from returning. "They talked me out of it by instilling doubts about what a lawyer in the South can do," he said.

Increasingly interested in power and its delegation, Lowi began a Ph.D. program in political science at Yale University. Before completing it, he would join the Cornell government faculty in 1959, leaving in

1965 for a seven-year stay at the University of Chicago. Upon his return here, he would assume the university chair, establish the Cornell-in-Washington program and become well known as an expert on the presidency (his book, "The Personal President: Power Invested, Promise Unfulfilled," won the Neustadt Award for the best book on the subject in 1985.)

Yet while still at Yale, he said, Lowi was an undisciplined student who provoked criticism from professors. "When my classmates get together, they can still get a laugh out of telling how the blood got drawn from Lowi," he said. "I didn't take the time and I wasn't good at understanding what authors meant. I was already exploring my own ideas."

The independence of mind and the impatience in reading still mark Lowi's work habits: whether responding to reporters' questions, interacting with peers at conferences or counseling his students.

"My standard line now to reporters is, 'You're wasting your time so I hope you're enjoying yourself because you'll never be able to use my stuff. It won't fit in. . . . What you want is something that will fit in the format you know, to use what you already know,'" he said, adding, "Most of the senior reporters don't call anymore for that reason. I don't blame them."

Nor does it worry him: "If I write my own stuff, I can play God myself instead of playing angel to their God," he said.

Yet, Lowi insists, he does not aim to be difficult; just himself. "I'm frequently invited to panels because the organizers think I will provide controversy. But I don't choose to be controversial. I don't concentrate long enough on someone else's work to argue it. I'm already making my own argument," he said.

He encourages similar behavior from his students. "I tell them, 'Once you get a burning good idea for a thesis, you must write early. You can reduce the real potential for creativity by overburdening yourself with the literature.'" It creates a terrible feeling of chaos that makes one "tend to fall back on old-type paradigms," he said.

And Lowi's method for trying to get "a crack at immortality," after all, is by being a "paradigm-maker." In his words: "I don't like to be an intellectual valet to the greater people of the past. They aren't greater, they're just past."

—Lisa Bennett

CALENDAR

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

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

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

DANCE

Israeli Folkdancing

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

EXHIBITS

Johnson Art Museum

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

"A Celebration of American Art from the Collections of Cornell Alumni and Friends," through Nov. 4.

"Arthur Wesley Dow and His Influence," featuring woodcuts and photographs by Dow, his students and colleagues, through Oct. 14.

"Eye Openers: The Art of Woodblock Printmaking," a workshop for children ages 7-10, will be offered Sept. 15 and 22 in conjunction with the exhibit of Arthur Wesley Dow's work. Register by Sept. 7. For more information call the education department at 255-6464.

Olin Library

"Wood Engraving," an exhibition of woodcuts and engravings from the 15th through 20th centuries, along with works of noted nature artists Anna Botsford Comstock, Cornell's first woman faculty member, and Elfriede M. Abbe '40 will continue through Oct. 5, Monday through Friday, 8 a.m. to 5 p.m., Olin Library.

Tjaden Gallery

1990 CCPA Grants: Installation by Donna Mae Hatcher, through Sept. 8; sculpture by Duane Potter and photographs by Elizabeth Fralburg, Sept. 9-15. The gallery is in Tjaden Hall, 8 a.m. to 4:30 p.m.

Uris Library

"The Arab World in Fact and Fiction," a display in the library's nine display cases, dedicated to Asa and Rose Anna George whose donation to the library of a large number of Arab works of literature in English translation have enhanced the collections. The displays will be in Uris through December.

FILMS

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

Thursday, 9/6

"Annie Hall" (1978), directed by Woody Allen, with Woody Allen and Diane Keaton, 7:30 p.m.

"The Hunt For Red October" (1990), directed by John McTiernan, with Sean Connery, Alec Baldwin and Sam Neill, 9:45 p.m.

Friday, 9/7

"Annie Hall," 7 p.m.

"Solaris" (1972), directed by Andrei Tarkovsky, with Donatas Banionis and Yuri Jarvet, 7 p.m., Uris Hall.

"The Hunt For Red October," 9:15 p.m.

"Mystery Train" (1989), directed by Jim Jarmusch, with Joe Strummer, Masatoshi Nagase and Nicoletta Braschi, 10:30 p.m.

"Laputa: Castle In The Sky" (1987), directed by Hayao Miyazaki, midnight.

Saturday, 9/8

"Des Pardes," with Dev Anand and Tina Munim, sponsored by the South Asia Film Series, 1:30 p.m., Uris Library.

"Laputa: Castle In The Sky," 6:30 p.m.

"Solaris," 7 p.m., Uris Hall.

"The Hunt For Red October," 9:15 p.m.

"Thelonious Monk: Straight No Chaser" (1988), directed by Charlotte Stern, 10:30 p.m., Uris Hall.

"Risky Business" (1983), directed by Paul Brickman, with Tom Cruise and Rebecca DeMornay, midnight.

Sunday, 9/9

"Eat and Beauty #2" (1964) directed by Andy Warhol and Robert Indiana, with guest speaker Jon Gartenberg, free, Johnson Museum, 2 p.m.

"Thelonious Monk: Straight No Chaser," 4:30 p.m.

"Risky Business," 8 p.m.

Monday, 9/10

"Mystery Train," 7 p.m.

"She Done Him Wrong" (1933), directed by Lowell Sherman, with Mae West and Cary Grant, 9:30 p.m.

Tuesday, 9/11

"In the Year of the Pig," sponsored by the Southeast Asia Film Series, 4:30 p.m., Hollis E. Cornell Auditorium, Goldwin Smith.

"Total Recall" (1990), directed by Paul Verhoven, with Arnold Schwarzenegger and Ronny Cox, 9:50 p.m.

"Sur" (1988) Argentina, directed by Fernando Solanas, with Susu Pecoraro, 7 p.m.

Wednesday, 9/12

"Let There Be Light" (1946), directed by John Huston, co-sponsored by Veterans for Peace, 6:30 p.m.

"The Men" (1950), directed by Fred Zinneman, with Marlon Brando and Teresa Wright, co-sponsored by Veterans for Peace, free with "Let There Be Light," 7:30 p.m.

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

Thursday, 9/13

"Cinema Paradiso" (1989), directed by Giuseppe Tornatore, with Salvatore Cascio and Philippe Noiret, 7 p.m.

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

LECTURES

A.D. White Professors-at-Large

"Constitutional Privacy: Who Can Do What, When and How?" Geoffrey Marshall, The Queen's College, Oxford, and A.D. White Professor-at-Large, Sept. 13, 4:30 p.m., Moot Court Room, Myron Taylor Hall.

Thomas Gold Lecture Series

"Dark Matter Decay and the Ionization of HI regions in the Galaxy," Professor Dennis W. Sciamia, University of Oxford, Sept. 10, 4:30 p.m., Schwartz Auditorium of Rockefeller Hall.

"The Fate of the Universe," Professor Sciamia, Sept. 13, 4:30 p.m., Schwartz Auditorium.

Hillel

"Turning/T'shuvah: The Center of Jewish Tradition," Sept. 10, 8 p.m., 314 Anabel Taylor Hall.

Mathematical Sciences Institute

Peter Constantin, University of Chicago, will give the following lectures: "Dirichlet Quotients and Navier-Stokes Equations," Sept. 6, 4:30 p.m., 328 White Hall; "Areas of Interfaces in Turbulent Flow," Sept. 7, 4 p.m., 322 Sage Hall.

Peace Studies Program

"Modeling the Dynamics of International Bargaining," Pierre Allan, Institut des Hautes Etudes, Geneva, Switzerland, Sept. 6, 12:15 p.m., G08 Uris Hall.

"The Peace Dividend: The Prospects for Conversion," Judith Reppy, peace studies, Sept. 13, 12:15 p.m., G08 Uris Hall.

Plantations

"Chinese Herbal Medicine," James Affolter, Cornell Plantations, Sept. 6, 7:30 p.m., Lewis Headquarters Building, Cornell Plantations.

"Bee Keeping in South Korea," Scott Camazine, neurobiology, Sept. 13, 7:30 p.m., Cornell Plantations.

Society for the Humanities

"The Noble Negro and the Sound of Words: The Aesthetics of Racial Politics in Post-bellum America," Kenneth Warren, Northwestern University, Sept. 11, 4:30 p.m., Guerlac Room, A.D. White House.

Southeast Asia Program

"The Mesa Cult Site and its Wider Implications," Virginia Dofflemeyer, faculty fellow, Sept. 13, 12:20 p.m., 102 West Ave. Ext.

Western Societies Program

"Politics of Writing," Jacques Ranciere, Universite de Paris VIII, Sept. 12, 4:30 p.m., Guerlac Room, A.D. White House.

MUSIC

Department of Music

"Music by J.S. Bach," will be performed by Zvi Meniker on harpsichord. Meniker, who has performed in Austria, Switzerland and extensively in South America, will be playing Partitas in C Minor & E Minor, Italian Concerto, on Sept. 8 at 8:15 p.m., in Barnes Hall.

Bound for Glory

Bob Franke, songwriter, will perform in three live sets on Sept. 9, 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.

CRESP

"Sweet Honey In The Rock," a black women's a cappella group, co-sponsored by Africana Studies and Research Center, Sept. 15, 8 p.m., Bailey Hall. Tickets are \$12.50, available at Ithaca Guitar Works, GIAC, Rebop Records, Smedley's Bookstore and Willard Straight Hall.

South Asia Program

"Beats of Ecstasy," classical Indian music by Alla Rakha and Zakir Hussain with Sultan Khan, Sept. 13 at 7:30 p.m. in Kaufmann Auditorium of Goldwin Smith Hall. Tickets are \$6 and can be purchased at the South Asia Program, 170 Uris Hall. Contact Mary Schuler at 255-8493 for additional information.

RELIGION

Sage Chapel

Roger A. Badham, assistant director of university ministries, will deliver the sermon on Sept. 9. Service begins at 11 a.m. Music will be provided by the Sage Chapel choir, under the direction of Donald R.M. Paterson. Sage is a non-sectarian chapel that fosters dialogue and exploration with and among the major faith traditions.

Baha'i

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

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 Chapel.

Episcopal (Anglican)

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

Friends (Quakers)

Sundays, 10:30 a.m., meeting for worship, Hector Meeting House, Perry City Road. (Rides from Anabel Taylor Hall at 10 a.m.) Call 255-4214 for information.

Jewish

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

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

Korean Church

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

Muslim

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

Seventh-day Adventist

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

Zen Buddhism

Zazen practice Tuesdays 6:45 p.m., Thursdays 4:30 p.m. in Anabel Taylor Chapel. For more information or to arrange beginner instruction, call Jon Warland at 272-0235.

SEMINARS

Astronomy & Space Sciences

"Cosmology from Arecibo: Segregation Bias in the Large-scale Distribution of Galaxies," Martha Haynes, astronomy, Sept. 6, 6 p.m., 105 Space Sciences Building.

"Is Triton Too Hot?" Robert Brown, Propulsion Laboratory, Sept. 11, 4:30 p.m., 105 Space Sciences Building.

Biotechnology

"The Biotechnology Program at Cornell: What Is It?" Richard E. McCarty, former Director, Biotechnology Program, Sept. 12, 6 p.m., Room G-01 Biotechnology Building.

Ceramics Program

"Ceramics Afternoon," a seminar co-sponsored by the Department of Materials Science and Engineering and the Materials Science Center, will be held Friday, Sept. 7, in Kimball Hall. The seminar is to improve communication among people interested in ceramics. "Superconductivity: Past History to the New Ceramics — an Overview," Fred DiSalvo, chemistry, 2:25 p.m.; "Superconducting Bearings," T.K. Chang, theoretical applied mechanics, 3:20 p.m.; "Superconducting Ceramics: The Program at AT&T Bell Labs," David Johnson, AT&T Bell Labs, 4 p.m.; and "Thin Films of Copper Oxide Superconductors," Bob Buhman, applied and engineering physics, 5:05 p.m.

Chemical Engineering

"Modeling of rf Plasma Used in Microelectronics Fabrication," Herbert H. Sawin, Massachusetts Institute of Technology, Sept. 11, 4 p.m., 255 Olin Hall.

Ecology & Systematics

"The Inside Story on Locomotion from Worms to Fish," Stephen A. Wainwright, Duquesne University, Sept. 12, 4:30 p.m., Morison Seminar Room, Corson/Mudd Hall.

Electrical Engineering

"High Technology in Japanese vs. American Economy," Alan McAdams, Johns Hopkins University, Sept. 12, 4:30 p.m., 219 Phillips Hall.

International Nutrition

"Nutrition and Primary Health Care in Rural Haiti — A Personal Experience," Agathe Pellerin, nutritional sciences, Sept. 13, 12:30 p.m., 200 Savage Hall.

Jugatae

"Ants, Plants and Blue Butterflies," Naomi Pierce, Sept. 10, 4 p.m., Morison Seminar Room, Corson/Mudd Hall.

Neurobiology & Behavior

"Behavioral Ecology and the Management of a Natural Resource: The Wood Duck Story," Paul Sherman, neurobiology and behavior, Sept. 6, 12:30 p.m., atrium, Corson/Mudd Hall.

"Genetic Structure and Behavioral Conflicts Within Colonies of a Eusocial Mammal: The Naked Mole-Rat," H. Kem Reeve, Sept. 11, 12:30 p.m., Morison Seminar Room, Corson/Mudd Hall.

Operations Research & Industrial Engineering

Manufacturing Engineering Seminar, "Design and Implementation of CIM Systems," Jack Bradt, SI Handling, Sept. 13, 4:30 p.m., B14 Hollister Hall.

Ornithology

"Breeding Ecology of the Seaside Sparrow," Rob Marshall, ornithology, Sept. 11, 7:45 p.m., Fuertes Room, Laboratory of Ornithology, 159 Sapsucker Woods Road.

Plant Pathology

"Cellular Reorganization During Appressorium Development in *Uromyces*," Youn Kwon, Sept. 11, 4:30 p.m., 404 Plant Science Building.

Poultry & Avian Sciences

"Restriction Length Polymorphism of Chicken MHC Genes," Zehaza Uni, University of Jerusalem, Sept. 6, 4:30 p.m., 300 Rice Hall.

Expanding Cinema Series opens with Warhol films

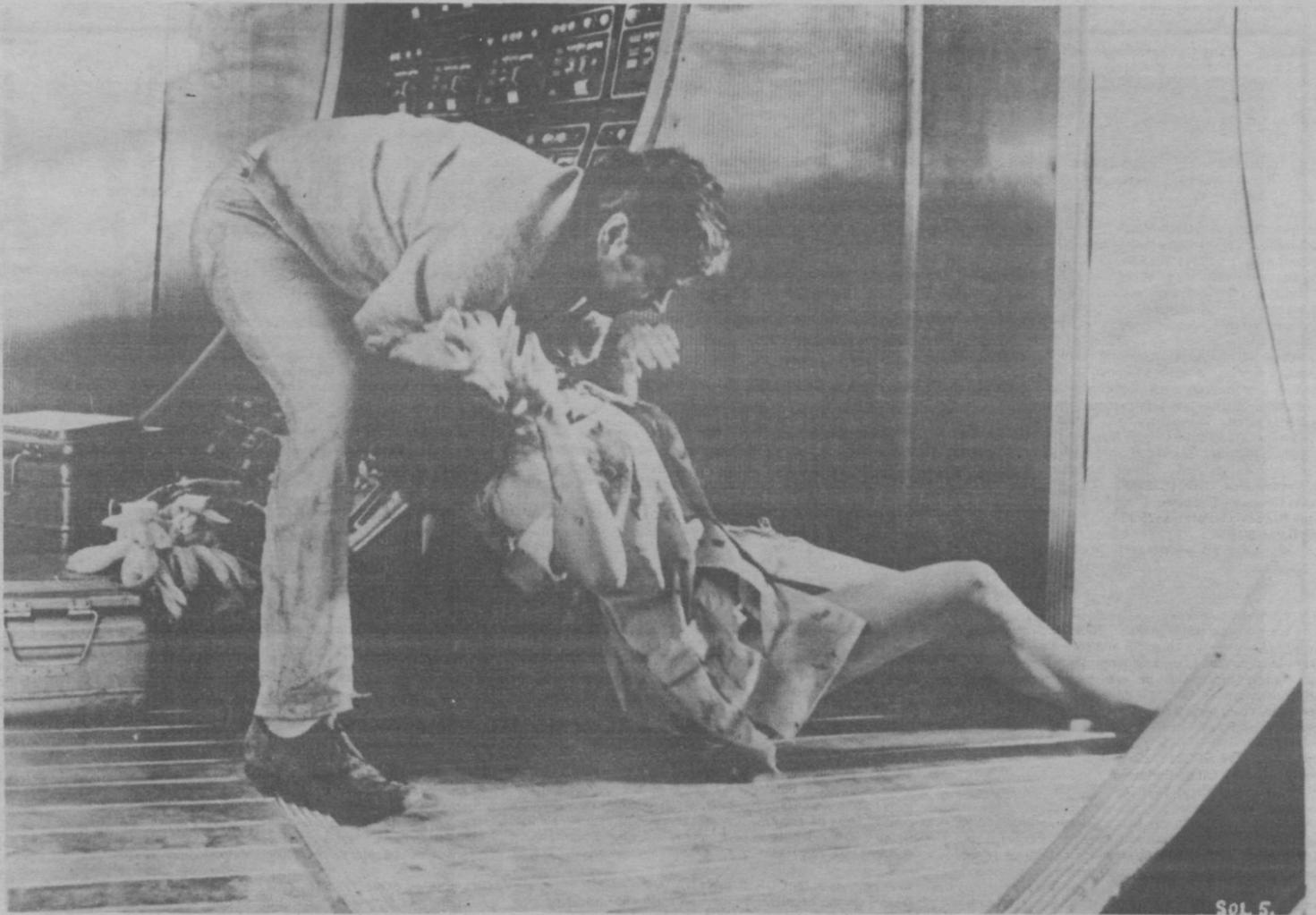
Expanding Cinema, Cornell Cinema's series for the most adventurous film and video in its program, returns with an especially exciting season this fall, beginning with the recently reissued films of Andy Warhol. Screenings are held on Sundays in the Room of the Johnson Museum and admission is free.

Warhol's early films of his "superstar" (including Edie Sedgwick, Ondine, and Viva) eating, sleeping and endlessly posing are legendary, but they haven't been seen for more than two decades. Coordinated by the Museum of Modern Art, "The Andy Warhol Project" is the beginning of a project that will make available a series of Warhol films.

Assistant curator Jon Gartenberger '73, overseeing the project, will return to Cornell on Sunday, Sept. 9, to introduce the series.

The first film of Warhol's best-known silent film series, "Eat" (1963, 39 minutes) features pop artist Robert Rauschenberg ever-so-casually eating a mushroom. "Beauty #2" (1966, 66 minutes, with Gino Piserchio and Edie Sedgwick) is film making as voyeurism: the camera records a scantily clad couple while an off-screen voice of Warhol's ex-lover roves almost at will over her feeling and past. The two films will be shown Sept. 9 at 2 p.m.

"My Hustler" (1965, 67 minutes, with Edie Sedgwick) will be shown on Sept. 16 at 2 p.m. and 3:40 p.m. Warhol's first commercial success, "My Hustler," was his first extended serious artistic treatment of homo-



A scene from Andrei Tarkovsky's science-fiction film, "Solaris," with Donatas Banionis and Yuri Jarvet, showing Friday and Saturday, Sept. 7 and 8, at 7 p.m. in Uris Hall.

sexuality as Fidel and Aniram Anipso as Che). The title of this bizarre spoof refers to Fidel Castro's anti-communist sister, the author of a Life magazine article entitled "My Brother is a Tyrant and He Must Go."

Because of the anticipated popularity of two programs in the series, "Andy Warhol's Frankenstein in 3D" will be shown in the Willard Straight Theatre on Sept. 28 and 29, and "The Chelsea Girls," with actress

Mary Woronov in person, will be shown in the Willard Straight Theatre on Oct. 16. The series is co-sponsored by the Johnson Museum and Cornell's Council of the Creative and Performing Arts.

Religious Studies
New Arche for the Study of Religion," H. Long, Syracuse University, Sept. 10, 11 a.m., 156 Goldwin Smith Hall.

Science, Technology & Society
Kangaroos, Koalas and Contraception: John Sabine, animal science, Sept. 10, 11 a.m., 609 Clark Hall.

Statistics
"Empirical Bayes Nonparametric Regression Estimates for Growth Curves," Naomi Eisenberg, biometrics, Sept. 12, 3:30 p.m., 100 Hill Hall.

SYMPOSIUM

Communication
"Science in Communication," a panel discussion conducted by Dale Grossman, communication, and Jane Brody '62, writer on food and nutrition for the New York Times and author of several books on food and nutrition, will be held Sept. 7, 1:30 p.m., in Alumni Auditorium, Kennedy Hall. Problems and obstacles of conveying scientific information to the public, the ethical use of public funds and the press in conveying scientific information to the public will be discussed.

SC.

Library Orientation Tours
for faculty and graduate students will be held today at 4 p.m. and Sept. 7 at 3 p.m. The tours provide an introduction to Olin's services, facilities and resources. Tours last approximately 30 minutes and begin in the lobby across from the circulation desk. Call the Reference Department for the schedule of next week's tours.

Olin Library Research Seminars
Olin Library Reference Department will offer research seminars for faculty and graduate students in the humanities and the social sciences covering Olin's catalogs, COMPASS (Computer Assisted Search Service), subject search strategies, reference materials and interlibrary services. The two-hour seminar will be held today at 3 p.m. for social sciences. The humanities seminar will be held Sept. 11 at 7 p.m. For registration and room information, stop by Olin Reference or call 255-4144.

Personal Education Workshops
New series begins week of Sept. 10. Topics include assertiveness; building self-esteem; building satisfying relationships; gay/bisexual, a men's support group; stress management; women, food and self-esteem; lesbian/bisexual, a women's support group; life planning and self-concept; graduate-student support group; support group for issues of sexual identity. All groups are free and confidential. Sign up 9 a.m. to 4:30 p.m. in 103 Barnes Hall.

Plantations
The annual fall clearance sale will be held on Sept. 8 at 11 a.m. for members only. Anyone can become a new member on the day of the sale. Surplus plants from the nursery, including herbaceous perennials and balled-and-burlapped trees and shrubs, will be on sale.

Soloist and orchestra series opens Sept. 25

Cellist Yo-Yo Ma and pianist Emanuel Ax will open this season's Bailey Hall "Great Soloist and Orchestra" series on Tuesday, Sept. 25, with a program featuring works by Beethoven; Chopin; and American composer William Bolcom, including Bolcom's Sonata for Cello and Piano, which the artists premiered last year. Ma and Ax, two of the best-known musicians in the world of classical music, regularly perform duo recitals. This year they will perform in Europe in celebration of Isaac Stern's 70th birthday and at Carnegie Hall as part of its centennial season.



Yo-Yo Ma
Dorothea V. Haefliger

Pianist Murray Perahia will perform on Thursday, Oct. 18. His recordings include the complete Mozart concertos, Beethoven concertos and the Mendelssohn, Chopin, Schumann and Grieg concertos.

This year's "Chamber Music" series will begin on Friday, Nov. 2, with the Los Angeles Piano Quartet, followed by the Cleveland Quartet on Friday, Nov. 30, and the duo of Paula Robison, flute, and Eliot Fisk, guitar, on Saturday, Feb. 2, 1991. These concerts will be held in the Alumni Auditorium of Kennedy and Roberts halls.

The third concert in the Bailey Hall series will feature the English Chamber Orchestra, with Pinchas Zukerman as conductor and violin soloist, on Tuesday, April 2. And the Philadelphia Orchestra will perform under conductor Yuri Temirkanov on Thursday, April 25.



Emanuel Ax
Nick Sangiamo

In a special concert not included in either series, Beethoven's "Missa Solemnis" will be performed by the Syracuse Symphony, Cornell Chorus and Cornell Glee Club, with Karel Husa conducting, on Sunday, March 10. Tickets for "Missa Solemnis" are \$8 to \$12.50 for the general public and \$7 to \$10.50 for students.

Subscriptions for the Bailey Hall series are \$77 to \$124 for the general public and \$58 to \$93 for students. Chamber music subscriptions are \$34.50 or \$40.50 for the public and \$29.50 or \$34.50 for students. Tickets for all of these performances can be purchased at the Lincoln Hall ticket office, from 9 a.m. to 1 p.m. Monday to Friday, 255-5144, and at the Dewitt Mall box office, Tuesday to Saturday, 11:45 a.m. to 4:30 p.m., 273-4497. Tickets for the first concert will go on sale on Tuesday, Sept. 11. Remaining tickets will be sold at the door beginning at 7:30 p.m. on the night of the performance.

Three buses will run between Parking Lot B and Bailey Hall, stopping at the Cornell Dairy Bar, on evenings of concerts.

begins 'Community Report' TV show

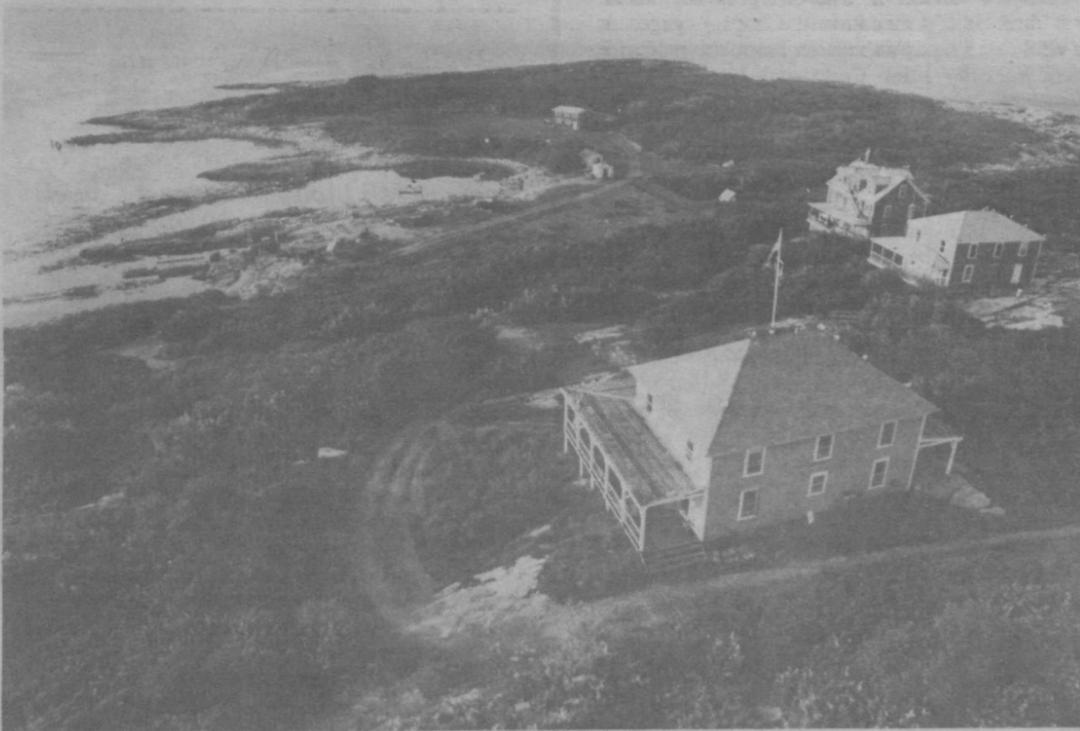
University-produced television show, "Community Report," will be shown to Tompkins County viewers starting Wednesday, Sept. 12, on American Community Cablevision Channel 7. The biweekly, half-hour, news-magazine show will air Wednesdays at 7:30 p.m. and will be shown on Tuesdays at 10:30 p.m. David Stewart and Frances Gross are the hosts of the show, which will feature news and interviews about the university and the local community. "We'll be looking at and talking about the university, of course, but we'll also look at the community in which our students, faculty and staff are involved on a daily basis," said Stewart. The first "Community Report" television program features Wolfgang Sachse, an engineering professor who volunteers to teach science to children at the Ithaca Montessori School; interviewer and political commentator George Will, who spoke at Cornell in June, and with Cornell head football coach Jim Hofher; and a segment about special places on campus. The general public is invited to take walking tours.



Student Meredith Avery examines a sea urchin while snorkeling off of Appledore Island.



Sylvia Jones draws a cluster of underwater sea plants and animals in a biological illustration class at Shoals.



Photographs by Tim Moersh

The Palmer-Kinne Laboratory (foreground), Shoals' major teaching laboratory, sits near dormitory and dining facilities. The view is toward the Atlantic Ocean. Students take a break (below).

Shoals *continued from page 1*

"Shoals is a microcosm that mirrors much of how we must learn to treat the Earth in the next century. We integrate this environmental perspective as much as possible into our teaching."

Preserving this educational microcosm has become a major concern of the laboratory. For one thing, Shoals' programs cannot be expanded much beyond its two dozen courses and other offerings, and cannot accommodate more than about 300 students per season, Heiser said.

"Our facility is small and must be kept so to maintain the precious unspoiled environment here," he said. "Also, the season is limited, and the climate is extremely hard on structures. A roof that in Ithaca would last 30 years lasts about 10 on Appledore."

Thus, said Heiser, although Shoals can generate about 70 percent of its operating funds from user fees, endowment must make up the difference and support maintenance and improvements.

"Shoals is not just a resource of Cornell; it's a national resource, even an international one," Heiser said, noting that students from throughout the United States and from other countries take courses at the laboratory.

What especially convinces Heiser of Shoals' importance is the inspiration he sees in the laboratory's students as they learn about the seas — whether studying creatures in the laboratory, diving in the frigid Atlantic waters or watching whales roll gracefully to the ocean's surface on expeditions.

"The reactions of students to the experience is what really keeps you excited, even when you have to deal with problems like boat motors breaking down, living on a small island or a staff wiped out by our tough schedule," said Heiser. "The impact on students is the thing that really keeps you going."

—Dennis Meredith



한국문학

David McCann joins four U.S. scholars of Korean writing

David R. McCann, who began his Korean studies thinking he had accepted an offer to do something else, this summer joined one of America's smallest communities of university scholars.

McCann, 46, has been appointed an associate professor of Korean literature, a field of teaching and research that includes only four other professors in the United States. (The headline above consists of the Korean characters for "Korean literature.")

In 1966, near the end of his undergraduate studies on Western European history at Amherst College, McCann applied to join the Peace Corps. Later in a noisy dormitory stairway, he received a telephone call, and the message sounded as if the Peace Corps "had accepted me for 'career' education in Hawaii."

Reporting to Hawaii, McCann learned that he was being recruited for Korea, not career, education. Although he knew nothing about Korea, he accepted.

McCann spent the next two years teaching English at Andong Agriculture and Forestry High School in the southeastern part of South Korea and learning Korean.

During Peace Corps training in Hilo, Hawaii, McCann met Ann Golden, who taught English at Ch'angdok Girls Middle and High School in Seoul while McCann was in Andong. They were married in 1968. She now directs Cornell's Student Aid Development and Stewardship Office.

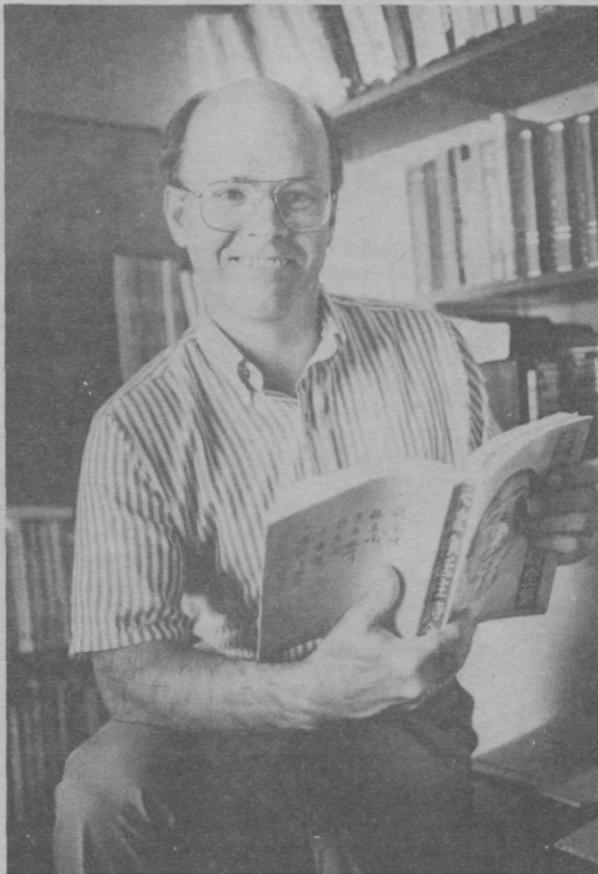
McCann earned his master's and doctoral degrees in the Department of East Asian Languages and Civilizations at Harvard University, where he studied modern and classical Japanese and classical Chinese while advancing his knowledge of Korean.

Fascinated by poetry since high school, McCann has translated and published in English the works of one of South Korea's most highly regarded poets, So Chung-ju, 76, and the "Prison Writings" of Kim Dae Jung, a prominent opposition political leader.

McCann sees several reasons for the paucity of Korean literature professors in the United States — only two Americans and three Koreans.

"Until the past decade, there was no large Korean population in the United States," McCann said. "For half a century, until 1945, Korea was seen as a part of the Japanese empire, not an independent nation, and it attracted few scholars in this country. In large measure, American interest in Korea has developed because of the Korean War, the 1988 Olympics in Seoul and South Korea's recent spectacular economic development."

In addition to teaching Korean literature, McCann is planning a course for next year on the history and literature of the Korean War, sometimes called the forgotten war. He believes that few if any universities in the United States now teach a course on the 1950-to-1953 conflict.



David Lynch-Benjamin

David R. McCann

He also wants to edit and publish what would be the first English-language anthology of Korean War literature drawn from writings in North and South Korea, China, the Soviet Union, United States, Britain and other nations involved in the fighting.

"Korean folk literature is full of great poetry and includes the fascinating p'ansori, the one-man opera," McCann said. "Korean literature is worth studying in itself and in how it compares with Japanese and Chinese literature. Korean poems of the 1920s and 1930s are intensely personal, and yet they also are read as expressions of Korean national feelings of loss during the period of the Japanese occupation, 1910 to 1945."

"More recently, South Korean literature has been shaped by the division of the country after World War II and by the Korean War. In North Korea, literature is an image of [President] Kim Il Sung and his personality cult."

Until his faculty appointment this summer, McCann worked in Cornell's Office of University Development, where he was director of foundation relations, engaged in fund raising while serving as an adjunct associate professor in Japanese and Korean studies.

He exchanged a spacious staff office for a cramped faculty nook in Rockefeller Hall, where he was surprised to learn that his faculty office lacks a personal computer to access university library files as he could from his previous staff office.

— Albert E. Kaff

George McGovern begins visit here as Newman Professor

George S. McGovern, a former South Dakota senator and Democratic presidential candidate, is the Newman Professor of American Civilization here this fall. McGovern lost the Presidential race to Republican Richard M. Nixon in 1972, winning only one state's electoral vote.

McGovern's lecture course — "U.S. Politics and Foreign Policy Since 1945" — covers the major issues, domestic political conditions and historical forces that have shaped American foreign politics from the end of World War II to the present. Special attention will be given to the Cold War.

"He'll be addressing a sequence of events he can speak about as an insider, as well as using his training in American history to place events in historical perspective," said Sherman Cochran, chairman of the History Department.

McGovern, whose weekly lectures began Aug. 30, will deliver a public lecture on Nov. 3 during Freshman Parents Weekend, just three days before the U.S. Congressional elections.

Before McGovern entered politics as executive secretary of the South Dakota Democratic Party in 1953, he taught history and political science at his alma mater, Dakota Wesleyan University, for four years. He holds a master's degree and a Ph.D. from Northwestern University. McGovern has been a lecturer at Northwestern since 1981.

During World War II, McGovern flew 35 bombing missions over Europe and was awarded military honors, including the Distinguished Flying Cross.

He is the author of several books, including "The Colorado Coal Strike 1913-1914," "A Time of Peace," "The Great Coalfield War," "An American Journey" and "Grassroots."

The Newman Professorship was started in 1987-88 to explore "the profound influence American civilization has had on its own people and, by example, citizens of other countries."

Best friends



Charles Harrington

Kate Ackerman, a freshman from Orchard Park, N.Y., gets a tickle out of her friend, Broccoli.

CORNELL Life

The onslaught

You can hardly tell when you look around this time of year — what with welcome signs and merchants' introductory specials and newspaper articles that tell freshmen about Ithaca — but the majority of us already have been through a new year at Cornell.

In fact, many of us never left. We were here during the summer. And the only thing new to us now, as someone said last week, is "it feels like we've been invaded."

"All of a sudden, in a day, they all flooded in," one employee said, eyeing the Arts Quadrangle the day before classes started. Walkways and Wegmans are crowded, traffic is slower, nights are noisier, administrators are back to wearing ties. The Cornell community is again "in full bloom," as another employee said.

It's not what it was during the past several months. Over the summer, we formed a Cornell community that, because it was smaller, felt closer. We spotted familiar faces more often, were more likely to acknowledge a passer-by and, on the best of all days, could find a parking spot.

Now, the compact Cornell community is again the colossal Cornell community, the largest Ivy League university.

How we feel about it runs from the jaded ("This would be a great place to work if it weren't for the students.") to the practical ("If it weren't for the students, we wouldn't be here.") to the appreciative ("I turn 40 next week," one employee said, "and I'm glad to see the students here again, excited and enthusiastic about learning.")

However we feel now, by the time we turn the calendar to October, the regulars among us will be fully involved in our school-year routines, probably not giving a second thought to the newest onslaught. But the effect of this Cornell — the colossal Cornell community — on the newcomers may be more lasting.

Walkways and Wegmans are crowded, traffic is slower, nights are noisier, administrators are back to wearing ties. The Cornell community is again in full bloom. Compact Cornell is again colossal Cornell, the largest Ivy League university.

It was for Todd, a 19-year-old sophomore engineering student who, while sitting under a tree outside Morrill Hall on the first day of classes in between playing the game of guess-the-freshmen ("She's a freshman," he said, pointing to a woman under another tree, "because she's writing a letter and keeps looking up. That's what I was doing last year."), reflected on his first year.

"I loved orientation and then things got bad," he said. "I applied as a bio-engineer. I was going to change the world. By the end of my first year, forget it, I decided to do what I want to do." Which means, trying to decide what will please him, if not the world.

What happened in a year?

"I had thought the experience would be totally awesome. It was heartbreaking that it wasn't. You go to big lectures, read the textbooks, do the problem sets. I was expecting motivation," he said. He was expecting to be singled out, motivated, encouraged that he could change the world.

Cornell, and the more than 18,000 students here, humbled him. "You start doubting if you can make a difference. Your enthusiasm rises during orientation and then it drops," he said.

But like and unlike hazing and the Marine Corps, Todd said, there is another phase to the Cornell experience. The enthusiasm that first rises on wings of great expectations and little experience, then dips as expectations encounter experience, soars once again. This time, made of stronger stuff.

"I realized the enthusiasm has to come from yourself," he said. "It has to. Or you just get used to doing problem sets. Or you drop out and save your parents \$10,000 [actually \$15,120 in tuition, alone]. . . . I'm enthusiastic about so many things now," he said, getting up as he realized he was running late for a section. "I could take classes for 30 years."

— Lisa Bennett

While you were away . . .

Students developing marketing plans for local businesses, a new institute to help raise the standards of living in underdeveloped countries and the creation of a "bottomless bird feeder" were among the stories reported in the Chronicle this summer. The following summaries of some of the key stories that appeared while you were away were compiled by Karen Walters.

Welcome back!

Institute fights poverty

The College of Agriculture and Life Sciences received the largest gift in its history to establish a new institute to combat poverty, malnutrition and hunger facing hundreds of millions of people in poor countries in Africa, Latin America and Asia.

The Cornell International Institute for Food, Agriculture and Development (CIIFAD) will be funded for the next five years with a \$7.5 million gift from anonymous donors, said David L. Call, dean of the college.

Call characterized the institute as a multidisciplinary, problem-oriented organization, saying that the institute will draw on faculty throughout Cornell to help less-developed countries boost their standards of living through agricultural and rural development. (Chronicle, June 28)

Copyright policy adopted

Under a new policy that was eight years in the making, Cornell will have a copyright claim on new computer software created by faculty and other employees whose work makes "substantial use" of university resources.

The new policy, endorsed by the Research Policies Committee of the Faculty Council of Representatives, was rejected in a 28-16 vote of the full FCR on May 9. It was nevertheless approved on June 28 by the Board of Trustees' Executive Committee and took effect immediately.

The main opposition from some faculty was that "substantial use" remained too vague a criterion and might be used to favor university ownership. (Chronicle, Aug. 9)

Slime-eel leather studied

One of the most disgusting animals in the sea, the hagfish, or slime eel — which feeds on dead fish by entering an orifice such as the gills, mouth or anus and eating everything inside except the bones — could become a commercially valuable species to New England fishermen as a source of "eel" skin, according to Cornell marine biologists.

The researchers are trying to aid rational commercialization by answering some basic biological questions — such as how many hagfish there are and how they reproduce.

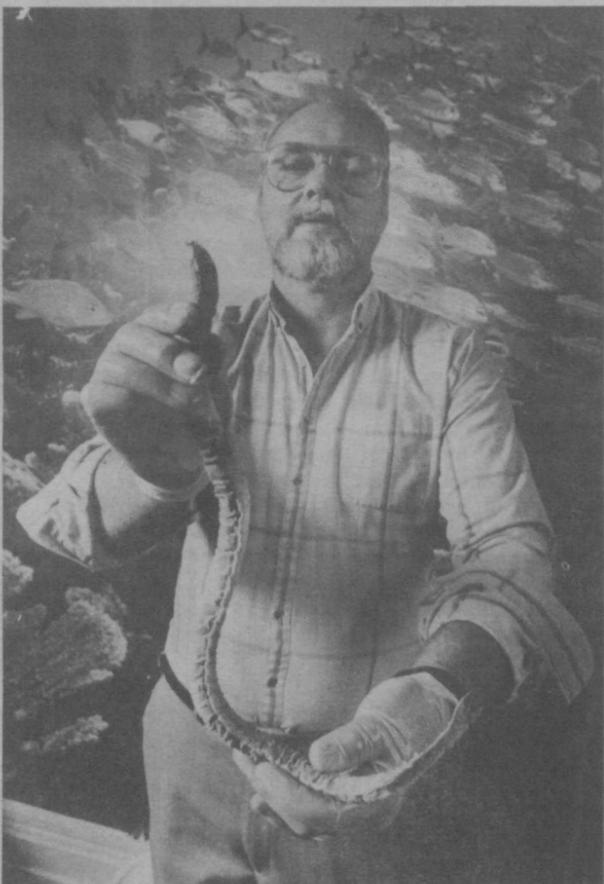
The scientists, acting in the interest of the depressed New England fishing industry, also are trying to introduce South Korean tanneries to the variety of slime eel found along the East Coast. Skins of hagfish are in great demand for "eel skin" leather goods, said John B. Heiser, director of the Shoals Marine Laboratory. (Chronicle, June 28)

Center supports family life

Cornell is using a five-year, \$1 million federal grant to strengthen family life in Chemung County, one of nine communities nationwide selected for the development of demonstration programs.

The Family Life Development Center has created a program model that supports local coordination of services to families and education for positive parenting.

The project will work at coordinating comprehensive, community-based services targeted at improving family life. These include health care, parenting education, child care, respite care, helplines, prevention programs with schoolchildren, and drug- and child-abuse-prevention edu-



Tim Moersh

John B. Heiser holds "one of the most disgusting animals in the sea," the hagfish or slime eel.



Tim Moersh

Demolition of Roberts and East Roberts halls began the week of July 9. The stone statutory and state seal atop Roberts Hall was saved for future use, and Ithaca Neighborhood Housing Services took doors and light fixtures for use in renovation projects. Railings were donated to Historic Ithaca.

caution, along with services that link to housing programs and job training. (Chronicle, June 28)

Bird-feeding garden created

Bird lovers who are weary of refilling feeders will appreciate the latest project of ornithologists here: They have turned the grounds of Stuart Observatory into a bird-feeding garden by installing native plants that provide year-round food, nesting material and shelter for feathered visitors.

The Laboratory of Ornithology's low-maintenance garden in Sapsucker Woods is designed to show how suburban front yards, rural back yards and even the smallest patch of an inner city can be landscaped into a bottomless bird feeder. (Chronicle, June 28)

Drug-abuse research expanded

Behavioral scientists here are expanding studies of alcohol and drug abuse in the workplace to develop programs that will help workers overcome substance dependence.

Faculty members in the Smithers Institute for Alcohol and Workplace Studies in the School of Industrial and Labor Relations believe that drug and alcohol problems are reducing the effectiveness and competitiveness of American industry and the quality of American life.

They are studying conditions in a number of industries and are planning research in Israel, Ireland, Italy and France to determine if cultural and ethnic differences contribute to substance abuse. (Chronicle, June 28)

Saving books on disk

Cornell, Xerox Corp. and the Commission on Preservation and Access are collaborating in a pilot project to test an advanced technology for recording deteriorating books as digital images and producing high-quality copies.

An 18-month study with potential benefits for libraries worldwide will include scanning 1,000 Cornell Library volumes into a digital image storage system. The test will help libraries, archives and universities develop collaborative strategies for preserving and providing access to deteriorating scholarly resources. (Chronicle, July 12)

Fungus kills gypsy moths

Scientists have used a fungus of Japanese origin to kill off up to 85 percent of the gypsy-moth caterpillars attacking oak trees in an experiment conducted in an Ithaca woodlot from early May through mid-July.

The success raises the possibility that the fungus could be used as a lethal biological weapon against the gypsy moth, according to scientists at the Boyce Thompson Institute for Plant Research, a private, independent research organization based at Cornell.

The experiment marked the first time that the fungus had been deliberately pitted against the leaf-devouring caterpillars at a site where the fungus does not occur naturally.

Commercial soil preparations containing the fungus could be developed for use by homeowners as well as professional foresters to combat the gypsy moth, said Ann Hajek, an insect pathologist at BTI. (Chronicle, July 26)

Abiogenic-gas search resumes

Encouraged by laboratory analyses of oil in the first well drilled for deep-Earth gas, Cornell astronomer Thomas Gold and a Swedish firm plan a second well in one of the world's least-likely petroleum fields.

The first effort to find commercial quantities of abiogenic, or non-biological, methane beneath Sweden's Siljan Ring meteor crater produced a 6.7-kilometer-deep, \$33 million hole; about 86 barrels of oil; some methane and other hydrocarbon gases and some helium; and a quantity of "gunk" that may propel the emeritus professor into his next

confrontation with the scientific establishment.

While some skeptics of the Swedish well's success have said the recovered oil was diesel oil used as a lubricant in the drilling process, gas-chromatography analysis has identified it as crude oil from the Earth, according to laboratories that tested the material for Gold. He said the oil was flushed upward by methane. (Chronicle, July 26)

Students help businesses

For Heidi Lorch and Kristin Fox, the free ice-cream cones were great. But the two students derived their greatest satisfaction in turning textbook knowledge into marketing plans that the ice-cream shop accepted with enthusiasm.

Lorch and Fox were among 32 students enrolled in the Hotel School's course, Marketing Communication Media, an undergraduate course taught by Assistant Professor Chekitan S. Dev. Their assignment was to select a local business and develop ways to sharpen its public image.

The students divided into two-person consulting teams. Each team adopted a businesslike name and scoured Ithaca for companies willing to accept volunteer consultants. They spent a full semester as consultants to a hotel, a travel agency, a flower shop, an athletic club, a software vendor, an advertising agency, a charity organization and several restaurants. (Chronicle, Aug. 9)

Olin update; did Cascadilla move?

Summer-long drilling and blasting efforts between Goldwin Smith and Stimson halls were completed on schedule last week for the hole that will house the underground extension of Olin Library. In the next few weeks, a vertical shaft will be dug under Stimson Hall for the elevator and fire stairs. Concrete work will begin by the end of September. Scheduled completion of the three-story future home of Olin's special collections remains spring 1992, with E Avenue to be reopened next summer.

Did Cascadilla Creek once flow through what is now Arts Quad? Maybe, say two geologists who have found what may be part of a buried Cascadilla Gorge some 20 feet below the surface of the quad, at the bottom of the open area that will become the Olin Library extension.

William Brice, a University of Pittsburgh geologist who taught here this summer, measured the elevations along the top of the sandstone bedrock that excavators exposed between Stimson and Goldwin Smith halls. The bedrock at Stimson is 811 feet above sea level and at Goldwin Smith 790 feet — a 21-foot drop off.

"This may well be one side of an old Cascadilla Gorge," Brice said. "Or it could be just an old undulation of which the ice moved." One way to learn the true contour of the bedrock would be to consult builders' records at Goldwin Smith Hall. If the drop-off does indicate a buried valley, it may extend toward the statue of Ezra Cornell, he speculated. (Chronicle, Aug. 9)

Pig hormone speeds results

In the most detailed studies yet on the effects of treating pigs with growth hormone to achieve faster growth and leaner meat, Cornell scientists have found higher feed efficiency and no significant difference in meat flavor or cholesterol content compared to untreated animals.

Using pig growth hormone, the nation's pork production in the future will be able to produce market-ready hogs about 11 days sooner than usual, thus significantly cutting feed costs while providing dramatically leaner pork to the consumer, according to researchers R. Dean Boyd and Donald H. Beermann of the College of Agriculture and Life Sciences.

The pig growth hormone is yet to be approved by the Food and Drug Administration for commercial introduction in the United States. (Chronicle, Aug. 9)

Dynamic transportation planning: A two-way street

Getting there without the gridlock

Few Tompkins County residents are not affected by traffic jams in this area.

While members of the university community are major traffic generators, the problem is not Cornell's alone, but that of the municipalities surrounding the campus and, in fact, all of Tompkins County.

There are on-campus issues, too. Cornell University is wrestling with vehicular access to central campus, parking fees, and mass transit.

Costs for constructing and maintaining highways, parking lots and garages, and for providing public-transit services, are accelerating.

What are the options? New roads or highways could improve capacity and increase vehicular mobility; mass transit and park-and-ride lots could reduce the number of cars and trucks now in use. Striking a balance is critical.

Even in a rural county, the question of how many people really need to drive to work is more than rhetorical.

The articles on the next four pages explore problems shared by the university and local municipalities, and potential solutions. Viable solutions must and can be identified and implemented, but they will require the cooperation and involvement of all members of the community, on and off campus.

Who will be the driving force?

Traffic congestion is growing throughout the nation — from small communities like Ithaca, to larger college communities, such as New Haven and Ann Arbor.

Car ownership is up in the United States. Gridlock is on the rise. Part of the reason, according to transportation experts, has been cheaper gasoline. Recent developments in the Middle East could change that.

No matter why people are behind the wheel, increased traffic clogs streets, makes finding a convenient parking space nearly impossible, and creates a sizable headache for planners on and off campus.

County planners say residential growth patterns, the rugged topography, and concern for the environment constrain the development of rights-of-way for new roads.

At Cornell, vehicular access to central campus often conflicts with concerns for pedestrian safety and preservation of the environment. The size of Cornell's campus also makes it difficult for students to walk between some locations in the 15 minutes between classes.

Is public transit the answer? Perhaps, but unconventional work schedules, which some people prefer, require extended operating hours for campus transit and a reliance on less-traditional systems, and this increases operating costs.

Reducing the impact of vehicles on campus is a major priority at Cornell and other universities, but campus administrators say limited resources can put the brakes on solutions.

With an estimated 9,400 employees as of this fall, Cornell's work force is greater than the next ten employers in

the county combined. And while the university community generates most of the jobs and much of the traffic, there's only so much that it can do to solve traffic problems.

The local highway system was designed for a 1960s population — both people and vehicles — but there hasn't been one new highway constructed here since state route 13 was relocated during President John F. Kennedy's administration, even though the number of vehicles on the road here has tripled since then.

State transportation department counts for 1989 indicate that, on average, 25,900 cars went up and down route 13 between Stewart Park and North Triphammer Road each day. That's up 10,000 a day from just 15 years ago.

Imagine if today's route 13 traffic was added to the traffic that already comes down route 366 (Dryden Road), then through the residential neighborhood along Ithaca Road and Mitchell Street, down State Street hill, and through downtown Ithaca. That's where route 13 was before the state's four-lane north-south artery was built.

"Since then, we've put men on the moon, but we've failed to relieve traffic congestion in Ithaca," says Paul M. Griffen, associate vice president for facilities planning and construction at Cornell.

High among Cornell's priorities is intermunicipal cooperation, the only way to effectively address many of the problems confronting the county and its nine towns, six villages, and city. Municipal planners are beginning to deal with the dynamics that make planning in Tompkins County such a challenge.

Bumper crop of cars means more traffic, more problems

You're in the sixth car in line at the traffic light after it has changed from red to green to red again. You're having trouble finding a convenient parking spot on a Saturday-morning shopping trip or a weekday trip to the office.

According to the state's Department of Motor Vehicles, the number of vehicles registered in Tompkins County increased by 17 percent from 1983 to 1988 — among the highest increases in central New York. Nearby counties with larger population bases saw more modest growth in registered vehicles, such as 11 percent in Chemung County and 13 percent in Onondaga County.

In 1988, when the most recent data was collected, nearly 61,000 vehicles were registered in Tompkins County — that's about one car for every permanent resident of driving age.

Add an estimated 8,000 Cornell and 4,000 Ithaca College student-operated cars and trucks registered in other counties or out of state, and the number of vehicles operated in Tompkins County approaches 73,000.

This figure does not include the thousands of employees who commute into and out of the county each day. Labor statistics indicate that about one-third of the local work force comes from outside Tompkins County.

Greater reliability on public mass transportation could help reduce the use of cars on and off campus. But public transit suffers from an image problem.

That means at least 80,000 vehicles on streets and roads in a county that had a 1980 population of 87,000, according to the U.S. Census Bureau. (Preliminary 1990 census figures indicate a population of 93,810.) Still not counted are the thousands of motorists just passing through and others visiting for a few days or longer.

All this traffic is on a highway system whose capacity was designed when cars had tail fins.

Ithaca and Tompkins County form a regional employment, shopping, and tourism hub and offer a quality of life that was ranked recently as the best small city in the geographic area from Washington, DC, to the Canadian border. Among the few negatives listed for Ithaca were highways and transportation.

Parking issues present special challenges to local governments. Vacant storefronts have prompted concerns by downtown Ithaca merchants and the Ithaca Common Council. Mayor Ben Nichols says the ability to provide parking to potential shoppers is an important part of making downtown

businesses more viable. He recently appointed task forces to examine parking and transportation issues.

In order to increase available parking for customers, Nichols suggests that all-day parkers — many of whom are owners and employees of downtown businesses — may have to park in lots or a new parking garage on the periphery of the central business district. He says the demand for monthly permits exceeds the number of allotted spaces in the city's two downtown garages. This results in some employees monopolizing short-term street locations and "feeding" the meters throughout the day.

Availability and turnover of parking spaces are keys to the success of a downtown parking program, according to municipal planners.

Providing adequate parking has been particularly difficult for area employers. At Ithaca College, the largest private, residential college in the state, a new 240-space lot has helped relieve some of the parking pressure on South Hill. An agreement with NCR — located across route 96B — provides another 320 spaces, primarily for the college's commuting students, college officials said. There are 2,790 parking spaces for 1,200 employees and 6,400 students.

Tompkins Community Hospital provides 620 spaces for 875 doctors, nurses, and staff, plus hundreds of patients and visitors.

For employees of the Ithaca City School District, parking is relatively abundant at Ithaca High School, the middle schools, and rural elementary schools, but is very limited at elementary schools in city neighborhoods.

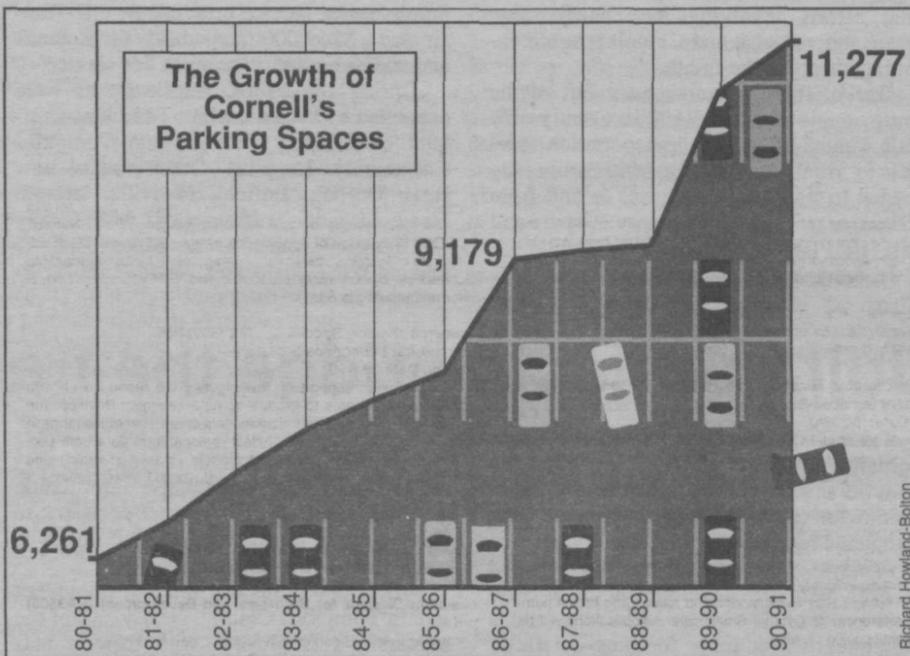
At Cornell, the issue of parking and traffic circulation, especially on and near central campus, is among the most difficult tasks facing university planners.

Some 4,000 drivers seek central-campus parking each day with an additional 5,000 to 7,000 visitors, peripheral parkers, and Cornell neighbors using the campus roadway system. Most universities in cities rely on their host municipalities for maintenance of campus roads, but Cornell is responsible for about 16 miles of streets and roads, most of which are available for public use.

Local municipalities have urged Cornell to provide more parking, and the university has done so. However, putting down more asphalt is only part of the solution.

The university projects the need for 1,500 more spaces this decade, unless the number of students, employees, and visitors driving on central campus can be reduced significantly. Greater reliability on public mass transportation could help reduce the use of cars on and off campus. But public transit suffers from an image problem.

University planners have stepped up efforts to reduce traffic congestion, increase convenient parking, enforce parking regulations, and improve pedestrian safety. As part of its on-going campus-planning effort, the campus has been divided into 12 geographic areas or precincts.



"Certain sections of campus have greater problems than others," says William E. Wendt, director of transportation services. Using this "map-of-the-neighborhood" approach, university planners are developing long-term plans that include attacking parking and circulation problems.

But, "What you do in one precinct on campus can have a direct effect on the next precinct and surrounding off-campus neighborhoods," Wendt says.

This domino effect can occur when a parking lot is replaced by a new academic building. In every case, though, university planners have attempted to accommodate employees whose parking spaces have been displaced. For example, he says the 700-space parking garage near Hoy Field, which opened in 1987, was built in anticipation of new construction, such as at the hotel school and engineering college.

... putting down more asphalt is only part of the solution.

During the 1980s, the university spent about \$18 million on campus parking and traffic improvements and increased its inventory of parking spaces by 75 percent, from 6,300 to about 10,800. This fall, Cornell's parking inventory is almost 11,300.

This 4,500-space gain outpaced growth in the university's work force and enrollment in the 1980s. The number of employees went up 1,400 from about 7,800; enrollment also went up about 1,400 from 16,800 over the same period of time.

Although the number of new students has been stable for a few years and the rate of growth among employees has slowed,

more parking spaces are planned.

A 600-space peripheral lot behind East Hill Plaza, for example, would reduce congestion at the intersection of Judd Falls Road and route 366 for drivers coming to Cornell from Ellis Hollow and route 79, some of whom now park in the B lot along route 366. The proposed lot also would accommodate some parkers displaced when construction of the long-delayed teaching hospital and renovation project at the College of Veterinary Medicine begins next spring. It also would be a storage lot for students' cars that clog streets in the Bryant Park and Collegetown neighborhoods.

First suggested in the early 1980s by consultants for the city's Collegetown redevelopment plan, the proposed lot was discussed with town officials about a year-and-a-half ago. It was reviewed formally by the town's planning board at the beginning of the 1989-90 academic year, and a public hearing was held in February 1990.

The project is now on hold. In May, the university asked the Town of Ithaca to postpone consideration of the proposed lot for nine months while the town and county develop plans for circulation and traffic improvements in the area.

Relocation of some university operations to Cornell's Business and Technology Park and other locations away from central campus is freeing spaces on campus. Approximately 600 university employees now work at off-campus locations, where more than enough parking exists, according to Wendt.

The university is offering a number of alternative, non-parking-related solutions, such as improved bus schedules and public-transit incentives. But "Cornell can't solve all the local transportation problems on its own," Wendt says. "To make any significant improvements, we need the cooperation of the off-campus community, too."

Steering a course for intermunicipal planning

Nearly everyone in Tompkins County who addresses planning issues admits that cooperation and coordination between municipalities has been as rare as an empty parking spot during downtown sidewalk-sale days.

The absence of intermunicipal planning is, in the view of some, the single most vexing problem facing the community. "The fact that local municipalities generally have not worked to establish a framework for long-term planning means that there is very little context in which to address issues. The result is that a NIMBY (not-in-my-back-yard) response occurs virtually every time a potentially controversial issue is raised," said John F. Burness, Cornell's vice president for university relations. "The community has, in effect, created its own planning gridlock."

'The community has, in effect, created its own planning gridlock.'

— John F. Burness

Some steps are being taken, but more initiatives are needed to solve planning problems throughout the county.

Despite the failure to develop a comprehensive intermunicipal approach to parking and transportation, James A. Mason, chairman of the Tompkins County Board of Representatives, says the few successful joint efforts involving the county, city, towns and villages, and Cornell provide encouragement for the future.

One of these ventures grew out of the energy crisis of the late-1970s. County officials wanted to provide transportation services to rural residents and the university needed to transport employees to and from offices near Tompkins County Airport and East Hill Plaza.

In order for the university to expand its

bus line beyond campus boundaries and provide a comprehensive service, state transportation officials recommended that Cornell establish CU Transit, its own corporation. At about the same time, former county planning commissioner Frank Liguori initiated dialogue involving the county and several towns and villages that led to the development of Tomtran, which made public transit available in rural Tompkins County for the first time.

"The county could not afford the multi-million-dollar cost of suddenly becoming a public-transit operator," says William E. Wendt, Cornell's director of transportation services. Wendt, who was among the founders of this countywide service, adds, "Both the county board and the university were looking for better ways to serve our communities. Working with the county to develop routes, and with CU Transit serving as an operator, we were able to help our employees and assist the county in providing a much-needed service."

The university's willingness to establish CU Transit and support this expanded transportation network was "key to getting Tomtran off the ground," Mason recalls.

Additional partnerships resulted in a multi-route network that includes an expanded Ithaca Transit line and other services such as Northeast Transit.

Cornell's subsidy of this countywide transit system was more than \$609,000 in 1989-90. Wendt says this subsidy includes more than \$100,000 in university sponsorship of Ithaca Transit and Northeast Transit; \$240,000 to cover operating deficits for public-transit service provided by CU Transit; and a \$269,000 fare subsidy for students and staff who use on-campus bus service.

During the 1980s, transit routes were expanded to Pyramid Mall, Tompkins Cortland Community College, and Tompkins Community Hospital. Other routes now serve Dryden, Enfield, Freeville, Groton, Newfield, and Trumansburg, with Danby and Lansing routes to be added soon — making retail businesses, health-care facilities,

schools, and places of employment in one part of the county accessible from nearly all other locations.

According to CU Transit Manager William Crissey, buses operated by CU Transit — including Tomtran services and campus routes available to students, faculty, staff, and visitors — logged nearly half-a-million miles in 1989.

The public-transit partnership has improved service without overburdening the resources of a single operator. County board chairman Mason points to this as one of the best examples of "high-level" intermunicipal/university cooperation.

Another component of the local public-transit picture is Gadabout, the 14-year-old, non-profit organization that provides on-call transportation for elderly and physically challenged individuals.

The future of transit service in the county is now at a critical stage, Mason says. Storage, maintenance, and operation of about two dozen more buses will be required by 1994 to meet the demand for new routes and expanded service. To accommodate these new buses — which will bring the total number to 61 — transit officials are planning a shared maintenance and administration facility. It will bring together the separate operations of Ithaca Transit, CU Transit, Tomtran, and Gadabout — creating a more efficient, countywide transit system, Mason says.

Other cooperative ventures have been successful, too. In 1984, the deteriorating and potentially dangerous section of Forest Home Drive along Beebe Lake was closed after arguments over who owned the road and, therefore, who should repair and maintain it. Negotiations between the city, the Town of Ithaca, and Cornell — each with portions of the road within its jurisdiction — concluded in mid-1986, and the parties agreed to share equally the \$165,000 needed for road repairs such as new retaining structures, drainage systems, granite curbing, a gravel road base, and a new surface.

Other examples of joint planning include city-town-county-university transportation studies on the origin and destination of commuters and on public-transit use and incentives to increase ridership; the development of a computer-modeling program called MacTrans; and planning of a countywide park-and-ride system.

Despite these successes, town and gown face many roadblocks, often causing projects (and solutions) to become bogged down in controversy. In some cases, they have stalled.

For Cornell, adding parking spaces has been complicated by city codes regulating the size of a parking space. Zoning ordinances require that parking spaces be 180 square feet, a size transportation planner Wendt says is 15 percent larger than necessary for today's smaller automobiles.

Despite successes, town and gown face many roadblocks.

In order to meet the zoning standard adopted in 1977, Wendt says anyone building a parking lot within city limits must put down significantly more asphalt to obtain the same number of spaces, resulting in a much larger parking lot, higher costs, and reduced green space.

University officials support city efforts to enact a zoning code that reflects current vehicle sizes. H. Matthys VanCort, the city's director of planning and development, says a revised standard is being presented to the Ithaca Common Council for consideration.

And, decades of debate over a solution for traffic problems in Ithaca's west end — the Octopus intersection — point to the complexity of problem solving. Now that the city and the state have reached general agreement on a solution, it will still be a number of years before construction starts.

Joint projects bridge the transportation gap

Several cooperative ventures between Cornell, the City of Ithaca, Tompkins County, and its various towns and villages are now on the drawing board or have been completed recently.

A major countywide effort was launched in 1988 with the development of a computer program known as MacTrans, and a subsequent travel study focusing on traffic patterns throughout the county. Initiated by the East Ithaca Land Use/Transportation Committee, the \$30,000 study has helped city, county, town, and university planners predict the impact of changes in traffic and land use. Last spring, area transit administrators and city and county officials joined forces with 52 Cornell students enrolled in the Field and International Study Program in the College of Human Ecology.

As part of the Transit-Incentive Pilot Project, nearly 400 university employees were offered two months of free bus service on Tomtran or Ithaca Transit in place of their on-campus parking permits. The undergraduate researchers interviewed 161 employees about their transit experiences, lifestyles, and transportation needs.

The need to transport children to day care and respond to family emergencies were among the concerns some employees cited as reasons why public transit is not a convenient choice for them. Faculty and staff participating in the study also said they would be more likely to use the service if they were given free passes to ride the bus. Free bus passes are an integral part of the transit-incentive package the university is implementing this fall.

Other findings, including suggestions from members of the study group, were:

- more buses more often;
- early-morning and late-evening routes for employees whose work schedules are not met by the current bus schedule;
- a series of park-and-ride lots, starting with a lot near East Hill Plaza, a location also proposed by university planners;
- express routes from locations such as West Hill and Dryden;
- increased financial incentives to ride the bus, even if it means increasing parking fees on campus; and
- blocking off central campus to all but essential traffic to enhance pedestrian safety.

Tompkins County Senior Planner Dwight Mengel, Tomtran coordinator, says the qualitative and quantitative information will help planners make better decisions to improve the transit system and make it more attractive to the public.

About two thirds of Cornell's employees live in Tompkins County. Nearly half of the university's employees with parking permits have a 14850 zip code, and are within a few miles of the university. This underscores the need for some express routes, according to Marc Kratzschmar, assistant transportation planner at Cornell.

Right now, though, personal vehicles are more convenient for many employees, despite the frustration of traffic jams, Kratzschmar observes.

A joint state-of-the-art maintenance and administration facility for Ithaca Transit, CU Transit, Tomtran, and Gadabout should increase coordination of transit services and make riding the bus more popular.

Each member of this public-private partnership now maintains its own facilities, which often results in duplication of services such as bus maintenance.

Significant benefits of the new facility

will be: better coordinated countywide transit planning; common training facilities for drivers, mechanics, and administrators; better and less-costly parts inventory; and greater efficiency and productivity by consolidating computer systems.

Also, marketing, public information, and administrative functions will be consolidated, providing a single source for information about routes and other services.

'... park-and-ride lots need to be located near consumer attractions.'

— William E. Wendt

State and federal funding will provide about 80 percent of the \$4.7-million project, which would not have been available for individual or smaller-scale projects. The joint proposal calls for Cornell to pick up 50 percent of the local share, with the city and county providing 25 percent each.

Development of a countywide park-and-ride network is in the works, too. Park and

ride would combine public transit with a number of convenient parking lots throughout the community. New and existing lots — located at county, village, and town facilities and at fire stations and commercial centers — would provide maximum convenience for commuters at dozens of Ithaca-area employees.

Employees would park their cars at the nearest commuter lot and take the bus to work; after work, the bus would return them to the park-and-ride lot. Employees would drive fewer miles, which cuts the cost of operating their vehicles, parking would be free, and the frustration of bumper-to-bumper driving could be reduced.

Scores of Cornell employees now take advantage of such services from and to Chemung, Schuyler, and Tioga counties.

"Taking the bus [from Burdett] is cheaper and more convenient," says Rita Fox, a Schuyler County resident who has taken advantage of the service for five years. "It drops me off and picks me up practically at the door [of Day Hall]."

Fox, an administrative supervisor, says the bus gets her to the office quicker than if

continued on page 4

Computer simulates solutions, replaces guesswork

Unlike problem-solving efforts of the past — which always included some professional guesswork — planners now have some electronic help in making difficult land-use and infrastructure decisions.

This assistance is in the form of a user-friendly road-network analysis program known as MacTrans, one that county, town, city, and university planners can run on their Apple Macintosh computers.

Developed in 1987-88 by Anthony Richardson, then a visiting professor in Cornell's College of Engineering, and Arnim H. Meyburg, now director of the School of Civil and Environmental Engineering, MacTrans allows its users to predict the results of changes in traffic- and land-use patterns by simulating the results of planning proposals on a computer-generated map.

One of the first MacTrans projects helped identify the origin and destination of traffic within Tompkins County and why

drivers go where they do. For one week in April 1988, some 2,800 selected households in the county recorded their travels for the most comprehensive origin-and-destination survey ever attempted here. That same week, Cornell engineering students counted vehicles on all major routes in the county and tracked the movements of trucks through the city.

MacTrans has helped local planners analyze trip patterns between downtown Ithaca and East Ithaca. Another MacTrans test suggested that a new road between Pine Tree Road and route 366 — part of an East Ithaca traffic-circulation proposal — would relieve congestion at the intersection of Judd Falls Road and route 366.

As the largest employer in the county and destination of much traffic, the university uses MacTrans to track changes in transportation patterns, according to Cornell's William E. Wendt. The university operates a bus service and parking facilities

for 18,200 students, 1,600 faculty members, and more than 7,600 other employees on a campus that is almost a small city itself.

University and municipal planners used MacTrans to determine where traffic should be rerouted when preparing for closing the city's Triphammer Bridge over Fall Creek for repairs in summer 1990.

"We expected that closing this major approach to campus from the north might shed large amounts of traffic east and west, through Forest Home and through downtown," says Cornell's Marc Kratzschmar. "MacTrans showed us that drivers would decide where to detour long before they got to the bridge, and take alternative routes further away from those areas originally predicted."

An informational campaign and strategic placement of "bridge closed" signs based on simulations helped lessen the impact during the five-month reconstruction period that continues into the fall.

Communication is route to solving transit problems

In the absence of an intermunicipal transportation plan, local communities face major hurdles to solving traffic congestion and parking problems. According to several elected officials, the greatest pressure comes from residents who frequently oppose any sort of development, including roadways, near their neighborhood.

James A. Mason, chairman of the Tompkins County Board of Representatives, says, "Many roadways are at capacity, but trying to make changes is viewed as growth, which some neighborhoods don't want."

Fellow board member Stuart Stein, who represents the city's third ward, cautions: "The alternative [to no improvement] is that nothing gets done" and, therefore, problems are not solved. Stein serves as chair of the county board's planning and development committee. "If there is a neighborhood that is not happy [about a planning decision] — a group so unhappy that it takes community action — it can stop a project. That's been our experience."

Stein says there will always be some unhappy neighborhoods, but a compromise must be sought whenever possible. If a compromise is not found, he predicts that "conditions will get worse, and perhaps the

day will come when people throw up their hands and demand action no matter what."

Ithaca Alderman Richard Booth, whose district includes Bryant Park and other East Hill neighborhoods bordering Cornell, agrees. "Until a problem gets serious, people don't take action." Booth says, because little government action has been taken, "the impact [of increased traffic] on

between the various groups, such as elected officials, municipal and university planners, and neighborhood associations.

These efforts take on many forms, but the goal is clear: share information and problems, potential plans, and other ideas in order to understand better the issues facing each municipality as well as the university.

Formal and informal committees are one

'We simply cannot make individual planning decisions without expecting them to have an effect on other places in the county.'

— Viola Miller Mullane

the city and the county is large and growing worse."

"One of the most frustrating aspects of planning here is the historic reluctance of local municipalities to work together on common problems," said John F. Burness, Cornell's vice president for university relations. "The fundamental problem is the lack of a plan."

Several people are now trying to remove one of the major roadblocks to intermunicipal cooperation — lack of communication

way for representatives from towns and villages, the city, the county, the university, and various neighborhoods to seek mutually beneficial solutions. For example, when Burness arrived in Ithaca in 1986, the university initiated the Local Government Leaders Group as a way to increase communication and collaboration among elected officials and the university. Parking and transportation are among the issues regularly discussed at these meetings.

Another group, chaired by County Rep-

resentative Stein, is the East Ithaca Transportation/Land Use Study Committee — a collection of planners, neighborhood and Cornell representatives, county board members, and individuals. They address issues such as circulation routes and roadways, incentive programs, and public transit.

For Cornell's part, transportation-services director William E. Wendt and campus-planning director Lewis S. Roscoe have made more than 60 presentations during the past year to groups on and off campus as a way to increase the community's understanding of these difficult planning issues. Some of the organizations to which Wendt and Roscoe have presented traffic/circulation and campus-development plans are town, city, and county planning boards, municipal planners, neighborhood groups, campus organizations, and formal and informal task forces.

In response to a recent Cornell presentation, Viola Miller Mullane, chair of the Tompkins County Planning Board, said: "This type of information helps us understand the challenges we all face and shows how we need to be working together. We simply cannot make individual planning decisions without expecting them to have an effect on other places in the county."

Fees may vary, but more campuses charge for parking

Whether it's at Cornell or other colleges and universities throughout the nation, employees grumbling about the cost of parking is common. And while faculty and staff often complain that parking fees are an unnecessary burden, national transportation experts say this revenue is essential to maintaining and expanding parking areas, roadways, and public transportation.

Cornell and most other campuses provide peripheral parking, and then charge increasingly higher rates for central-campus parking spaces. The theory is that those who want to park closer to their building ought to pay a "user fee" for that privilege.

Some employees claim that parking fees are a way for Cornell to fill its coffers at the expense of its workers. In reality, employee parking fees at Cornell support only about 40 percent of the overall cost of providing public transportation and maintaining the university's approximately 11,000 parking spaces, says William E. Wendt, director of transportation services.

"There is a myth that Cornell must be making bundles of money by collecting parking fees," says Wendt. On-campus rates are as much as \$5 a week. "The truth,

however, is that the university subsidizes about one-fifth of the costs."

University support of parking and public transportation comes from the general-purpose budget, which contributes 22 percent of the \$4.8 million transportation-service budget. Additional revenue is collected through parking fines and campus and contract transit.

Some university employees believe that the university should bear the entire cost of

'It's unrealistic to expect us to do more.'

— James E. Morley Jr.

the parking and transportation services. But Cornell financial planners point out that resources are finite.

"Every dollar used to subsidize parking or transportation is a dollar that isn't available for financial aid or for faculty and staff salaries, library collections, instructional equipment, and a host of services for stu-

dents," says James E. Morley Jr., senior vice president at Cornell. "Within the very real constraints we face because of reduced support from governments, students who pay tuition and all employees — not just those who drive to work — would have to carry the burden in terms of less financial aid, lower salaries, etc.," he says.

"If the university didn't provide a subsidy, the actual cost to park at Cornell would exceed \$300 per year for each employee across the board, including those who don't drive to work," Morley says. "We try to defray employee costs as much as possible through subsidies from the university budget and by providing free public-transit from peripheral locations. It's unrealistic to expect us to do more."

Cornell employees have the option of paying for spaces on central campus if their jobs require regular use of their vehicles. Some options are less expensive, such as the Kite Hill and Helen Newman parking lots. Public transit and campus buses complement the existing system by bringing employees to their workplace from home or from regional and peripheral parking lots.

Parking and transit options do not satisfy

some employees who prefer allocating central-campus parking spaces based on equal opportunity for access.

John Lemley, an administrative manager in the ag college, chairs the Employee Assembly's Committee On Transportation Services, whose members have discussed the issues and priorities of limited parking spaces several times. "If you happen to be excluded from the system, you're likely to believe it isn't very satisfactory," he says.

Lemley says the committee has considered the merits and demerits of the existing system for assigning spaces. "In the last analysis, we have not been able to come up with what we feel would be preferable to what is on the books."

Costs to employees who opt for a paid space can vary widely, says Bob Weant of the Eno Foundation for Transportation, a non-profit transportation research agency located in Westport, Conn. He says the trend is for nearly all colleges and universities to charge for parking and fees range from a low of \$25 to more than \$540 a year.

"More schools than ever before are charging employees, students, and visitors for parking privileges," says Weant. "The cost and fee structure may be highly variable, but the fact is fees are necessary."

Major research and teaching institutions, like Cornell, are hit hardest by the costs for building and maintaining facilities and transportation systems, often because they have the greatest demands.

The University of Michigan has increased its flat-rate parking fees to \$225 per person for the 1990-91 academic year. The additional funds, which represent a 12.5 percent increase since 1988, will support more than \$18 million in transportation-service repairs and renovations. Rate increases of 12.6 percent per year are expected through 1994-95 at Michigan.

The picture is much the same at Stanford University, where central-campus parking fees are \$200 per person, an 18 percent increase in one year. Stanford officials say more money must be raised through the fee system to offset some \$1.5 million spent annually to construct new parking facilities.

In comparison, parking fees at Cornell have risen by an average of only 4.5 percent per year during the 1980s. Fees range from free peripheral lots located at the southeast and northeast corners of the campus, to \$160 for perimeter lots, to \$260 — just \$1 per work day — for central-campus spaces.

Monthly permits for downtown Ithaca employees who park in city-operated ramps are \$18 to \$30 per month, or as much as \$360 a year. On-street metered parking in the central business district is \$.50 per hour.

Still, Cornell, like its counterparts throughout the nation, is faced with a significant shortfall in the dollars needed to meet the ever-increasing demand for new, convenient parking.

"Small increases in employee fees mean that an even greater subsidy will be needed from the university for future projects," but "limited resources make a large university subsidy impossible," says Senior Vice President Morley.

Options drive up price tag

What does it cost to build and maintain parking facilities?

- It costs \$2,500 to \$4,500 per space to build surface lots similar to those found at Cornell's A and B lots and at dozens of locations throughout and near central campus. A 900-space lot equivalent to the B Lot along route 366 near the College of Veterinary Medicine, for example, would cost as much as \$3 million.

- Less expensive lots similar to those found at shopping malls could be built, but less expensive equals lower quality, says William E. Wendt, Cornell's transportation-services director. "We choose to build high-quality, more durable lots on campus, which should last as long as 20 years. It requires more money up front, but, in the long run, these higher costs are offset by improved environmental controls and much lower repair and maintenance costs."

- Sidewalks, lighting, and landscaping can boost project expenditures to \$12,000 per space — as happened recently with a new lot on the south side of Barton Hall.

- Above-ground parking structures range from \$10,000 to \$15,000 per space. The 700-space parking garage between Hoy Field and Schoellkopf Stadium, built when construction expenses were lower, cost more than \$6.2 million, or \$8,600 per space.

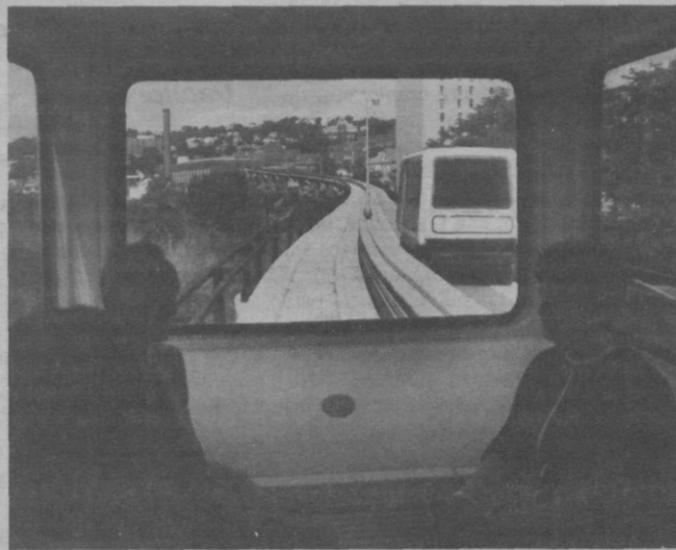
- Industry experts estimate yearly maintenance and repair costs at as much as \$80 per space. This means approximately \$880,000 per year for Cornell. This figure does not include the nearly \$1.3 million spent each year to maintain 16 miles of Cornell-owned streets, roads, and bridges. Cornell's "public works" budget is comparable to the City of Ithaca's.

- Repairing older lots on campus adds at least half-a-million dollars per year to the budget picture, Wendt says.

- Add to the expense ledger the university's effort to reduce a central-campus parking crunch and to improve on-campus transportation and circulation with non-traditional solutions, and the cost becomes staggering. While expenses for non-traditional solutions can skyrocket, traditional approaches can cost more in the long run if they don't get at the heart of the problem.

- Lewis S. Roscoe, Cornell's director of campus planning, is encouraged by the creativity of these alternatives, but he cautions that some choices only add fuel to already high parking- and transportation-related expenditures. Here are some examples.

- Because of the difficulty in building underground parking structures, costs range from \$15,000 to \$20,000 per space. The cost is higher than above-ground structures because of the need for ventila-



West Virginia University

Personal Rapid Transit vehicles glide on concrete guideways in Morgantown, home of West Virginia University. About 16,000 riders a day use the electric-powered PRT system constructed in 1975 as a federal demonstration project.

tion and sprinkler systems, landscaping, and a longer construction period. In addition, the bedrock commonly found throughout this part of the state creates construction difficulties that compound the cost.

- People-mover systems, ranging from above-ground guideways and monorails to light-rail and underground subways, are among the most expensive transportation options. People-mover or personal rapid transit systems could bring employees to central campus from peripheral parking lots and shuttle students and employees throughout campus, but can cost from \$5 million to \$10 million per half mile. Despite the cost, such systems are a good option because they move passengers rapidly and reduce traffic congestion.

- Transportation planner Wendt says, "We'd like to keep the expenses to a minimum, but the reality is that there simply are no low-cost options when trying to solve parking and circulation problems, especially with the terrain in this area."

Green light for preserving the campus environment

With demands to increase access competing with a limited number of central-campus parking spaces, preserving Cornell's green space is not an easy task, according to university planners.

Unless more employees use mass transit or ride-sharing, Cornell probably will need an additional 1,500 parking spaces.

Director of Campus Planning Lewis S. Roscoe says it would take the equivalent of the ag, arts, and engineering quads combined, and then some of upper Alumni Field — about 20 acres in all — to accommodate the projected parking needs.

Roscoe says covering the limited open spaces on central campus with asphalt is not the way to solve the need for parking. "One of the decisions we made quite some time ago was to try to preserve the character of our open green spaces, including quadrangles and gorges."

John Lemley, chair of the Employee Assembly's Committee On Transportation Services, says some people are offended when they see a parking lot at the center of campus in direct proximity to a building or a green space. "I'm not saying we ought to fill in the gorges ... but it doesn't offend my sensibilities to see a lot full of parked cars (next to a building)," he adds.

Lemley says certain groups, such as faculty members, should have greater access to the central campus and its facilities, even if it means compromising green space for

more convenient parking.

Roscoe says employee access to campus — by car, bike, or foot — is fundamental to the university's vitality, but preservation of the campus landscape also is critical.

"No matter what we do to resolve the issues of circulation and parking, our solutions must preserve the campus landscape and all of its values."

Cornell's trustees, in their comprehensive policies for the physical planning and design of the Ithaca campus, state: "More than the design of the buildings, the design of outdoor spaces, their organization and quality, is a conscious act and a disciplined art, the supreme challenge of campus design."

The 1972 policies, updated in 1988, place emphasis on maintaining vistas, limiting density, and preserving open spaces by considering environmental quality as a factor in general campus planning.

Roscoe says the comprehensive policy serves as a framework for rational development of the central campus. "These policies not only guide our day-to-day work, but our long-range planning, including 'Campus Plan - 1990,' a look at our potential needs 30 years down the road."

The draft campus plan was shared with a variety of audiences on and off campus during spring 1990. It is the result of several years of work by university staff and consultants who relied on input from campus

groups, local government officials, and neighborhood representatives before preparing the working document and precinct plans that will guide Cornell's campus planning into the 21st century.

One precinct of the university's campus plan is the orchard area along route 366, a potential site for campus expansion. County planner David Sparrow sees this as an opportunity to improve the whole pattern of automobile circulation in East Ithaca, while "feasible, cost-effective solutions still exist."

'... our solutions must preserve the campus landscape ...'

— Lewis S. Roscoe

There must be a balance between the functional and aesthetic, says Roscoe, who points to Forest Home Drive along the east and southeast shores of Beebe Lake as a good example of a successful combination of functional and environmental elements.

Parking lots, he says, often offer difficult design challenges. Several elements can be incorporated into a parking design to offset the "shopping-mall look" of many parking lots. Plantings such as trees and shrubs, the creation of earthen berms, or multiple-level

lots help avoid the appearance of a sea of cars. Lighting also can enhance a parking-lot design, in addition to playing an important public-safety role.

The design process is "more than wide streets and good parking," Roscoe says.

For example, when the need for an addition to Olin Library became critical, many options were explored, including placing part of the collection in a facility in the orchard area along route 366. That created the potential for more travel and time problems for faculty, staff, students, and neighborhoods, according to David I. Stewart, Cornell's director of community relations.

"We had nowhere to go but down," he says of the 90,000-square-foot addition to Olin Library, which is being built underground between Stimson and Goldwin Smith halls. It will be connected below grade to the existing library. When the project is completed in summer 1992, the southeast corner of the Arts Quad will be returned to its pre-construction condition.

"We'll be able to accommodate the need for library space on central campus without sacrificing the landscape," Stewart explains, "but not all sites on campus are acceptable for underground construction because of bedrock."

"This project," Stewart adds, "does not create the need for additional parking, and no parking or green spaces will be lost when it is completed."

What's down the road on campus and in the county?

While adding about 4,500 parking spaces over the past decade, Cornell has taken other steps to alleviate some of the problems related to parking on and getting around campus.

- **More short-term parking.** By replacing long-term parking with short-term and visitor parking, parking-space turnover on central campus has been increased, allowing more employees and visitors access to libraries and meetings.

- **New and more frequent bus routes.** Helping employees, students, and visitors get from one end of campus to the other requires that transit managers constantly make improvements to existing bus routes. For example, a new route to Cornell's Business and Technology Park has reduced the use of cars by employees in offices near the airport when they come to campus.

- **Public-transit incentives.** University officials encourage free bus service on Ithaca Transit, Northeast Transit, and Tomtran. Many homes in Tompkins County are near a public-transit route. Buses take you to drop-off locations, some closer to work than the nearest downtown or campus parking area. Cornell's incentive program being implemented this fall includes unlimited use of local bus services, with the university picking up the tab for the bus passes.

- **Car pool.** While car pooling is not a new idea, when was the last time you and your friends considered this alternative to driving alone? Cornell's Department of Transportation Services can help employees arrange car pools.

- **New roads.** New campus roadways have helped solve some circulation problems, especially for getting from campus parking lots to adjoining town and city



David Lynch-Benjamin

Buses, cars, and pedestrians compete at campus intersections.

roads. The new Campus Road extension from Alberding Field House to the vicinity of the Vet College is one example.

- **Parking gates.** Automated parking gates now control access to Sibley Hall, North Central Avenue, and field-house parking, significantly reducing unauthorized parking in some campus locations. Only drivers with a special electronic identification card can enter these areas.

- **Intersection improvements.** Additional turning lanes, revised traffic-signal configurations, and increased lighting help reduce possible dangers to drivers and pedestrians and cut idling time.

- **Transport alternatives.** Whenever possible, Cornell offices use commercial and campus couriers and the latest electronic technology to shuttle work, rather than people, between various parts of campus.

While these efforts have helped, more needs to be done in cooperation with local municipalities. Under consideration are:

- **Countywide park-and-ride.** A park-and-ride system could combine community parking lots located throughout Tompkins County with public transit, providing employees with free parking and shuttle service to their offices, whether they work at Cornell or another area employer.

Some of the biggest traffic problems come from drivers who travel the shortest distance, especially during peak traffic hours. Park-and-ride offers the benefits of reducing traffic congestion and energy consumption by replacing single-user vehicles. One passenger bus can eliminate about 40 individual cars.

- **Improved campus transportation.** People-mover systems are among the most expensive of the considerations for reducing on-campus congestion. These systems which range from cable cars to monorails to subways, would carry employees, students, staff, and visitors quickly and conveniently along major campus arteries, such as Tower Road.

- **Additional parking structures.** With space at a premium, campus planners are investigating the possibility of additional parking garages, such as the one between Hoy Field and Schoellkopf Stadium, or underground structures, the type usually associated with larger municipal-parking areas.

- **Off-campus vehicle storage.** About 1,400 students hold permits that allow them to park near residence halls — areas that could be used for more convenient employee and visitor parking. Because most students do not need their cars every day, one proposal is to "store" student vehicles at peripheral lots and provide public transportation to campus.

- **Bikeways.** The addition of several miles of campus bikeways would provide a safe and healthful alternative to automobile driving, and could help reduce traffic congestion. University planners are working with city and town planners to connect campus bikeways with existing and new municipal bikeways.

Here's how you can get involved

You can help reduce some of the traffic congestion. An important first step is to think globally.

Parking, transportation, and circulation problems are challenges we face every day as "residents" in a collection of many individual campus neighborhoods and as members of the Tompkins County community. The entire community will benefit from responsible transportation behavior.

Another important way you can help is by sharing your suggestions with representatives of campus governance bodies, your local neighborhood association, or a municipal agency or official. Here are some specific suggestions.

- **University transportation forums.** As part of the transportation department's effort to improve communication, staff members will be conducting informal brown-bag gatherings this fall to give employees an opportunity for direct contact with many of the people responsible for transportation, parking, and campus planning.

More than two dozen groups on and off campus address parking, transportation, and circulation issues on a regular basis. Formal on-campus committees include:

- Committee On Transportation Services
- Campus Planning Committee
- Special Request Appeals Board
- Violations Appeals Board

Other committees and ad hoc groups can be found within the employee, university, and student assemblies, and the Faculty Council of Representatives. Additional campus groups that discuss parking and transportation issues from time to time include:

- Deans' Council
- Controller's Support Group
- Personnel Support Group
- College faculty meetings
- College administrative managers' meetings
- Senior staff briefings
- Academic deans' meetings

Formal boards and committees off campus include:

- Municipal governing, planning, and zoning boards
- Tompkins County Planning Board
- Ithaca/Tompkins County Transportation Commission
- East Ithaca Transportation/Land Use Committee
- Committee for Improved Transit in the Ithaca Area

Various community, environmental, and neighborhood associations provide other opportunities to discuss transportation and parking issues.

Check with your local civic association to learn more about how your neighborhood or municipality is addressing these issues.

Bridging the gap *continued from page 2*

she drove, parked in the A lot on North Campus, and then took a campus bus.

Park-and-ride has widespread support from county, city, town, and university officials. The initial plans include lots in locations throughout the county for employees of dozens of Ithaca-area employers.

"Experiences in other communities suggest that park-and-ride lots need to be located near consumer attractions or places where people might run errands or pick up a child in day care," says William E. Wendt, the university transportation-services director. "By placing these lots at such locations, we can intercept much of the traffic before it clogs already busy downtown, neighborhood, and campus roadways."

Irregular or staggered work schedules, such as those at educational institutions, help spread the demand over a longer period of time, according to Wendt.

Lynne H. Irwin, who heads Cornell's Local Roads Program, a service to municipal governments, says there are two ways to improve the flow of traffic — adding lanes and new roads. In Tompkins County, though, he says very few local roads have more than two lanes of capacity.

"New roads attract and divert traffic from other roads because they offer better quality alternatives," Irwin adds.

CORNELL EMPLOYMENT NEWS

Including Job Opportunities

Volume 2, Number 37

September 6, 1990

Welcome to New Faculty and Staff

Each year at this time the Cornell community welcomes about 2,000 new staff and faculty, many of whom are new to the area. While a new job can be exciting and challenging, moving and adapting to life in a new community can be confusing and stressful. Fortunately, Cornell and the surrounding communities offer a wide variety of resources and support services, and there are many people willing to answer questions and help newcomers. The following are sources of information and help:

General Information

Cornell Information and Referral Center, Main Lobby, Day Hall, 255-6200. This main campus resource service provides general information and referral about Cornell and the surrounding area on a written, phone, or walk-in basis.

Tompkins County Information and Referral Service, 313 N. Aurora Street, 272-9331. This office provides information on and referral to human services and community resources available in Tompkins County.

Cornell Recreation Club, 165 Day Hall, 255-7565. This club was formed to provide social, cultural and recre-

ational activities for faculty and staff members. It seeks to promote fellowship among members by sponsoring these functions.

Campus Club of Cornell University, contact Elizabeth Howell, membership chairperson, 277-1524. This club invites all women of the Cornell community to enjoy the varied resources that the Cornell community has available. Campus Club offers lectures and social events as well as activity, interest, and service groups.

Medical and Emergency Services

Cornell University Health Services, Gannett Health Center, 10 Central Avenue, 255-4082 or 255-5155 (after hours). Primary health care and some specialized services provided by a variety of medical professionals are on a fee-for-service basis. Available by appointment or on a walk-in basis for urgent health problems.

Suicide Prevention and Crisis Service, 272-1616. 24-hour telephone crisis counseling and assessment of suicidal risk. Information and referral to community resources.

Tompkins County Medical Society, 101 Dates Drive, 273-1135. A booklet with information on medical and phar-

macy services in Tompkins County is provided for your assistance.

Personal Counseling

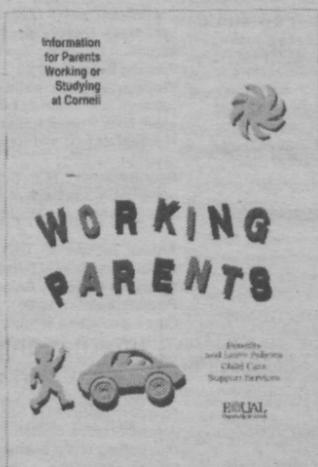
Contraception, Gynecology, and Sexuality Services (CGSS), 3rd floor, Gannett Health Center, 255-3978 or 255-6448. Clinicians, nurses, and counselors offer counseling and/or medical services for contraception, gynecological problems, DES screening, sexually transmissible diseases, pregnancy testing and referral, sexual identity, sexual dysfunction, and relationship problems.

Cornell United Religious Work (CURW), 118 Anabel Taylor Hall, 255-4214. Religious staff and denominational advisors provide personal and/or couples counseling of a general, religious, premarriage, or crisis nature. Contact for referral.

Employee Assistance Program (EAP), Anabel Taylor Hall (on campus) or Family and Children's Services, 204 N. Cayuga Street (off campus), 273-1129. Trained professionals provide a counseling and referral service for Cornell employees, their family members, or living partner. Call for an appointment.

Booklet Available for Working Parents

Balancing work with family responsibilities is a concern of many in the Cornell community. To give working parents clear, concise and accurate information on benefits, leave policies, child care and support services, the Advisory Committee on the Status of Women prepared a booklet entitled *Working Parents: Information for Parents Working or Studying at Cornell*.



Copies of the booklet are available for individuals, offices or departments. To request copies of the booklet, call or write the Office of Equal Opportunity, 234 Day Hall, 255-3976.

Workshops and Seminars Calendar Mailed

Reminder: The Fall/Winter 1990 Calendar of Workshops and Seminars was mailed to all faculty and staff campus addresses last week. Be sure to register for courses soon to be assured a space in the program of your choice.

If you have not received the calendar and would like a copy, or if you need more information, please contact Training and Development in the Office of Human Resources at 255-7170. The calendar is also on CUINFO.

Military Leave Guidelines Available

If you are a reservist, or if you are a supervisor employing reservists, you may want to know how Cornell benefits will be administered in the event that reservists at Cornell are called to active duty. Guidelines for the university have been compiled and distributed to the personnel support group representatives. Contact your representative or call one of the following offices for information:

Staffing Services (reemployment issues)	255-5226
Endowed Benefits Office (benefits issues)	255-3936
Statutory Benefits Office (benefits issues)	255-4455
Employee Relations (general information)	255-7206

Information on Child Care



You can call the Day Care and Child Development Council of Tompkins County for the names of family day-care providers in the area if you live in Tompkins County. The council also has information on day-care centers, nursery schools, Head Start and prekindergarten programs, drop-in centers, play-groups, school-age child care, and special programs.

Cornell University contributes to the support of the council to provide a source of child care information for staff, faculty and students. You may write or visit the council at 609 West Clinton Street, Ithaca, NY 14850 or call 273-0259. Hours are 9:00 am-4:30 pm Monday through Friday.

If you live outside Tompkins County, the council may be able to tell you where you can get child care information.

Job Hunting Publication Available

It is said that the principal industry in Ithaca is education. During the academic year, the city's normal population is doubled by the increased student populations of both Cornell University and Ithaca College. When the new academic year approaches, many newcomers begin arriving in Ithaca and begin seeking employment. The creative job hunter will discover a variety of industries and services available in the community, as well as willing agencies and various publications to help in a job search.

The booklet *Just for Your Information: Job Prospecting in the Ithaca Area* was developed to assist those newcomers. This publication is the combined effort of Cornell University's Office of Human Resources, and the New York State Department of Labor's Ithaca Job Service Division. It lists information on local major employers including the person responsible for the company's staffing effort. There is a list of state and private agencies in Ithaca for both temporary and permanent opportunities.

In addition, the booklet offers a list of publications available to assist in the job search and orient one with the community as well as a listing of all educational facilities within reasonable commuting distance of Ithaca. The brochure concludes with some excellent job hunting tips including the traveling distances to various towns in the area. For the convenience of those individuals who want to start their job search before arriving in Ithaca there is information on how to order the *Ithaca Journal* and the *Cornell Employment News* as well.

Booklets are available at Cornell University, Staffing Services, 160 Day Hall; Cornell Career Center, 14 East Ave., Sage Hall; and the Department of Labor, Center Ithaca. For further information you may write to Staffing Services, 160 Day Hall or call (607)255-5226.

Nancy Doolittle Joins Office of Human Resources



Nancy Doolittle, manager of employee communication, Office of Human Resources

Nancy J. Doolittle has been appointed manager of employee communication in the Office of Human Resources. She replaces Laurie Roberts, who is now the director of external affairs in the College of Architecture, Art, and Planning. In her position, Nancy facilitates the production of OHR communications and serves as co-editor with Carolyn McPherson, Office of Equal Opportunity, of *Cornell Employment News*.

"*Cornell Employment News* was begun as a way of focusing attention on work-related issues important to Cornell employees—benefits, equal opportunity/affirmative action policies, tax law ramifications, retirement and compensation issues, career development information—as well as publishing Job Opportunities," Nancy explains. "It will continue to provide this focus, in as readable and straightforward a format as possible. And certainly," Nancy adds, "Carolyn and I welcome suggestions for topics or questions that any member of the Cornell community thinks *Cornell Employment News* should address. Just drop us a note in campus mail."

For the past four years, Nancy has worked for Cornell's Office of University Development, serving as production editor of development communications. Her previous experience included acting as assistant director of communications and development at Hamilton College and as associate editor of Hamilton's alumni magazine; as visiting assistant professor at Hamilton; and as an instructor in English at SUNY-Oswego.

Nancy received her MA and PhD in English literature from SUNY-Binghamton.

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

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

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

Professional

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

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

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

Associate Director Cornell Clubs (PA3503) HRII

Alumni Affairs-Endowed

Posting Date: 9/6/90

Assist the Director in planning overall policies, procedures and goals for Cornell Clubs nationally. Supervises club activities in assigned regions. Overall responsibility for all scholarship program development and activities. Overall responsibility for faculty speaker program development.

Requirements: Bachelor's required/Cornell degree preferred. Demonstrated ability to work with and organize volunteers; strong interpersonal, communication and writing skills; minimum 3-5 years experience with volunteers organizations preferred. Some travel. Send cover letter and resume to Cynthia Smithbower.

Senior Accountant/Supervisor of Financial Services (PC3511) HRII

Controller's (Accounting)-Endowed

Posting Date: 9/6/90

Responsible for the coordination of the financial services section of the central endowed accounting office. Major areas of responsibility include accounts payable/data entry; voucher audit and vendor relations; accounts receivable and collection department.

Requirements: Bachelor's or equivalent in business or accounting. 3-4 years related experience. Strong interpersonal and supervisory experience essential. Involves direct supervision of 5 and indirect supervision of 12 staff people. Familiarity with computerized financial systems and personal computers desirable. Send cover letter and resume to Esther Smith.

Assistant Cost Analyst (PA3501) HRII

Endowed Accounting/Controller-Endowed

Posting Date: 9/6/90

Reporting to the Manager, Cost Analysis, assist in the preparation of key financial analyses as well as providing staff support to the University Controller. Major efforts include the preparation of the Responsibility Center Analysis (RCA), the endowed research indirect cost rate, Accessory Instruction calculation, the administralive changes to colleges and enterprises and various fringe benefits analyses.

Requirements: Bachelor's; MBA desired. 3-5 years in cost or financial analysis. Extensive use of IBM PC/Lotus 123. Send cover letter and resume to Cynthia Smithbower.

Associate Director, Minority Student Affairs (PA3406) HRII

ILR-Student Services-Statutory

Posting Date: 8/30/90

Responsible for student personnel services to minority students including recruitment, counseling, academic support services, student organizations advisor. Coordinate college-level activity with the University-wide programs for minority students. Student clientele not limited to minority group members.

Requirements: Degree in counseling, student personnel or related field or equivalent experience; Master's preferred. Minimum of 3 years experience in higher education as advisor/counselor for minority and nonminority students. Send resume and a letter of application listing salary expectations and names and phone numbers of 2 references to Cynthia Smithbower. Applications will be accepted until position is filled.

Systems/Data Analyst (PT3311) HRII

DL-Quality Milk Promotion Services-Statutory

Posting Date: 8/23/90

Assist in compilation, analysis and presentation of data collected and generated by a large multifaceted research group. Assist in the development of computer based routines capable of compiling and analyzing large data arrays. Implement hardware and software routines on an expanding usage, service oriented program. Train staff, give technical assistance, and trouble-shoot problems.

Requirements: Bachelor's or equivalent experience. 3-5 years related experience. Knowledge of databases, spreadsheets and complex statistical analysis. Ability to interface database and spreadsheet files with Cornell's mainframe computers. Knowledge of most common software packages and ability to install common hardware devices. Communications, statistical and systems software knowledge preferred. Send cover letter and resume to Sam Weeks.

Manager, Chemistry Research Computer Facility (PT3202) Level 36

Chemistry-Endowed

Posting Date: 8/16/90

Manage the technical and business aspects of the Chemistry Research Computing Facility. Maintain performance and integrity of computer facility consisting of several mini- and microcomputer systems. Maintain department network. Provide information for department users on computer related issues. Assist users with problems and conduct seminars.

Requirements: Bachelor's in computer science or equivalent. Minimum of 2 years systems programming experience in a UNIX environment. Knowledge of C, FORTRAN, UNIX, and TCP/IP network management. Send cover letter and resume to Sam Weeks.

Technical Specialist I (PT1703) Level 36

CIT/Systems-Endowed

Posting Date: 5/3/90

Design, implement, install, document and maintain systems software and significant subsystems for the AIX/370 Operating Systems (IBM's version of UNIX for 370 architecture machines). Provide technical leadership in designing and adapting functional enhancements to AIX/370 and its subsystems. Some night, weekend and "on call" duties.

Requirements: Bachelor's in computer science or equivalent experience with computer courses in operating system fundamentals. 3-5 years experience with UNIX Operating Systems and significant subsystems preferred. Knowledge of "C" programming language, UNIX utilities and system calls is essential. Work with IBM 370 assembler language, the VM operating system and large systems is a plus. Send cover letter and resume to Sam Weeks.

Senior Systems Programmer/Analyst (PT3504) Level 35

CIT-Endowed

Posting Date: 9/6/90

Develop, modify, install and evaluate complex software programs and packages on large and small scale computer systems and workstations. Evaluate, recommend and support applications used in research and analysis. Work with other departments to coordinate pilot studies. Install fixes as received from software vendors. Analyze requirements for functions and performance and develop hardware and software alternatives to support the research programming needs of users.

Requirements: Bachelor's or equivalent with computer related

courses. 3-5 years programming and machine architecture experience. Knowledge of operating systems (VM/CMS, DOS, VMS, and UNIX) and hardware (IBM 3090, VAX 8530, DS5000, Macintosh, PS-2). Experience using statistical and visualization software and symbolic math packages. Good interpersonal skills. Send cover letter and resume to Sam Weeks.

Senior Technical Consultant (PT1701) Level 35

Financial Systems-Endowed

Posting Date: 5/3/90

Provide technical support. Serve as liaison to Financial Systems administrative technical consultant and Information Technologies staff. Write, maintain, and analyze system programs where normally used programming languages are unsuitable. Supervision of programmer analyst team as assigned.

Requirements: Bachelor's or equivalent. 5-10 years experience in application and system programming with ADABAS and BATCH, and VM/CMS interaction. Knowledge of commonly used programming languages such as Basic and assembler for mainframe to micro systems. Strong communication skills required. Send cover letter and resume to Sam Weeks.

Technical Consultant, Education and Training (PT4715) Level 34

Theory Center-Endowed

Posting Date: 12/15/88 (Search Reopened)

Provide end user support services to scientific researchers in universities nationwide. Develop instructional materials on a wider range of supercomputing tools including code optimization, vectorization, parallel processing, and visualization. Organize education programs and training workshops.

Requirements: Master's in a scientific discipline. 3-5 years mainframe FORTRAN or C experience, preferably on UNIX; demonstrated ability to work with complex scientific programs; excellent communication and presentation skills. Previous teaching or training experience a plus. Send cover letter and resume to Cynthia Smithbower.

Applications Programmer/Analyst II (PT3503) Level 33

CIT/IR-Endowed

Posting Date: 9/6/90

Design, develop, modify and document straight forward applications systems software in support of a major administrative system. Analyze requirements for functions and performance and develop software alternatives to increase the usability and efficiency of computer resources. Diagnose problems in production system software and effect emergency repairs. Install, document, maintain and modify straight forward, vendor purchased applications software. Write production procedure, JCL, and user manuals. Assist and advise users.

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

Research Support Specialist II (PT3509) HRII

Agricultural Economics-Statutory

Posting Date: 9/6/90

Provide research support on investigating the response of farm management systems to gradual climate change. Develop, run and analyze linear programming models of representative farms in various regions of the U.S. Collect regional farm data from secondary sources. Run crop field models. Assist in writing and presenting results. 1 year position. Beyond 1 year, contingent upon further funding.

Requirements: Bachelor's necessary, Master's preferred. 2-3 years training or experience in agricultural economics, economics, business, math, or related fields. Experience with computers desired. Send cover letter and resume to Sam Weeks.

Assistant Director for Programs and Development (PA3505) HRII

Unions and Activities/Willard Straight Hall-Endowed

Posting Date: 9/6/90

Responsible for the development, implementation and management of year-long programs and student development events in a progressive union building. Coordinate staff training, public information services and alumni relations programs. Budget and supervisory management of several operational areas. Develop and supervise submission of grant proposals. Coordinate program/student evaluations and assessments.

Requirements: Bachelor's required. Advanced degree and/or significant experience in student development preferred. A minimum of 3 years in a related field. Experience in program development and advisement. Group development/training; grant proposal writing. Send cover letter and resume to Cynthia Smithbower.

Development Assistant (PA3504) HRII

University Development/Public Affairs-Endowed

Posting Date: 9/6/90

Serve as technical resource person for the Office of Student Aid Development and Stewardship and as primary contact with Trust Office, Accounting Office and Gift Records. Maintain several databases. Produce gift report, track gifts, oversee all details associated with establishment of new scholarships and fellowships. Conduct research on current and past student aid giving. Identify prospects.

Requirements: Associate's or equivalent. Bachelor's or equivalent preferred. Good financial (accounting), computer (Macintosh), and communication skills. Good interpersonal and decision-making skills. Familiarity with Public Affairs information system helpful. 1-2 years working experience. Send cover letter and resume to Cynthia Smithbower.

Manager, Consulting Services (PA3402) HRII

Theory Center-Endowed

Posting Date: 8/30/90

Participate in program planning and provide leadership to technical consulting group. This group provides high quality user support for a wide range of supercomputing tools including code optimization, vectorization, parallel processing, visualization, and large scale applications. The manager will act as technical advocate for the user community and represent the CNSF at national meetings and conferences.

Requirements: Master's in a scientific discipline and 3-5 years technical management experience; excellent written and oral communications skills; IBM mainframe, UNIX and scientific FORTRAN or C experience. Send cover letter and resume to Cynthia Smithbower.

Production Editor (PA3006) HRII

University Development/Public Affairs-Endowed

Posting Date: 8/2/90

Oversee the design and production of publications ranging from simple to highly sophisticated; write and edit fund-raising materials, maintain records, and contribute significantly to the quality and effectiveness of the University's communications with alumni and friends.

Requirements: Bachelor's or equivalent. 2-3 years related experience. Knowledgeable of the printing process, familiar with principles of design; a graceful writer, skillful editor and sharp proofreader; accurate and well organized. Experience in Mac desktop publishing or at least be computer friendly; have some knowledge of Cornell and/or fund raising; be committed to high standards for communications; be able to juggle many simultaneous tasks and to work cooperatively with others. Send cover letter and resume to Cynthia Smithbower.

Program Coordinator (PA3407) HRII

International Students and Scholars-Endowed

Posting Date: 8/30/90

Plan and coordinate orientation, programming and activities related to inter-cultural adjustment of international students and scholars. Act as liaison with student and community groups. Counsel and advise undergraduate students from abroad. Coordinate writing and production of publications.

Requirements: Bachelor's or equivalent required. Master's or combination of education and experience is highly desirable. Significant overseas living experience. Excellent writing and interpersonal communication skills. Experience in student personnel services, teaching, counseling or closely related field. Second language skills highly desirable. Knowledge of Macintosh and desktop publishing software preferred. Send cover letter and resume to Cynthia Smithbower.

Executive Staff Assistant (PC3311) HRII

Asian American Studies-Endowed

Posting Date: 8/23/90

Primary function is to plan, coordinate and manage the administrative support functions for the program. Develop, monitor and manage special projects.

Requirements: Bachelor's and/or equivalent work experience and education. Excellent writing/communication skills. 3-5 years experience in office setting, preferably academic. Good working knowledge of Cornell desirable. Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza. External applicants send cover letter and resume to Esther Smith, Staffing Services, 160 Day Hall.

Research Support Aide (PT3307) HRII

Section of Ecology and Systematics-Endowed

Posting Date: 8/23/90

Develop models on the control of nitrogen fixation in aquatic ecosystems. Perform biogeochemical measurements in an analytical chemistry lab. Perform data analysis and conduct literature reviews. Provide day-to-day oversight of aquatic mesocosm experiments and assist with field sampling. Some travel required.

Requirements: Bachelor's in biology, environmental science, or related field or equivalent. Data analysis using Macintosh spreadsheet and graphics software; aquatic biogeochemical analytical measurements, such as measurement of nitrogen fixation rates or preparation of samples for trace-metal analyses; training in statistics. Send cover letter and resume to Sam Weeks.

Assistant Slide Librarian (PC3112) HRII

Architecture, Art and Planning/Dean's Office-Endowed

Posting Date: 8/9/90

Assist Slide Librarian in daily operation of the Architectural History collection of architecture, fine arts and photography slides. Research and catalog new material; train and supervise regular employees and student assistants; assist users; assume responsibility for facility when Slide Librarian is absent.

Requirements: Master's in Architectural History, Art History or MLS with undergrad major in Architectural History or Art History or equivalent in experience, license and skills. Familiar with library systems. Basic computer skills. Accurate typing. Experience with audio-visual and camera equipment. Knowledge of photographic processes and procedures. Reading knowledge of 2 foreign languages. Send cover letter and resume to Esther Smith, Staffing Services, 160 Day Hall.

Professional Part-time

Facilities Coordinator (PA3502) HRII

Human Ecology Administration-Statutory

Posting Date: 9/6/90

Responsible for managing all facilities related projects for the College of Human Ecology. Act as College liaison with on- and off-campus facilities personnel. Monday-Friday, 8 a.m.-12 p.m. or 1-5 p.m.

Requirements: Associate's in construction technology or equivalent combination of education and related work experience. 4-5 years in building maintenance and construction or trades highly desirable. Able to interpret architectural, electrical, and mechanical drawings. Strong interpersonal, communication and organizational skills. Send cover letter and resume to Cynthia Smithbower.

Professional Temporary

Editor I (S3302)

Agricultural Economics-Statutory

Posting Date: 8/23/90

Assume editorial responsibility for assigned manuscripts. Assignments cover a variety of Cooperative Extension publications including news releases, fact sheets, workshop curriculum materials, etc. Subject matter emphasis is in farm labor regulations and farm personnel management. 7 month position; until 4/1/91.

Requirements: Bachelor's or equivalent required. 2 years editorial experience desirable. Must have excellent command of grammar, spelling, and punctuation. Familiarity with personal computers desirable. Send cover letter and resume to Karen Raponi, Staffing Services, 160 Day Hall.

Research Support Specialist (PT3005)

Food Science-Statutory

Posting Date: 8/2/90

Provide specialized engineering support to research projects on processing of biomaterials at high pressures. Specific responsibility will be in pilot plant design, operation and data analysis. Until 1/31/91.

Requirements: Bachelor's in chemical/mechanical engineering or Master's in chemical/mechanical engineering with 2-3 years experience. Send cover letter and resume to Sam Weeks.

Community Dispute Resolution Center

Schools Coordinator

Community Dispute Resolution Center

Implement mediation programs in elementary, middle and High Schools. Work with drop-out prevention program.

Requirements: 6 years relevant education and/or experience. 1/2-3/4 time with benefits. Job description at 273-9347. Resume, cover letter and 3 references by September 17 to Director, 124 The Commons, Ithaca, NY 14850. People of color urged to apply.

Student Management Corporation

Alumni Services Director

Student Management Corporation

The Student Management Corporation, an independent cooperative, seeks an individual to operate and manage our Alumni Ser-

VICES Program. Responsibilities include overseeing/managing detailed computerized database, coordinating production of several simultaneous newsletters and special mailings, preparing annual financial reports and monthly billings, serving as liaison alumni and undergraduate groups, coordinating and offering assistance for special events, providing assistance with fundraising. **Requirements:** Experience in database management and direct mail fundraising, publication production, knowledge of postal regulations, public relations skills and experience with special event planning. Familiarity with Macintosh and IBM software. Knowledge of Greek System and Cornell. Send cover letter and resume to Jane Krumm-Schwan, Executive Director, SMC, Box #3, Willard Straight Hall, Cornell University, Ithaca, NY 14853-8201.

Technical

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

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

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

Technician, GR18 (T3405)

Laboratory of Ornithology-Endowed

Minimum Biweekly Salary: \$529.35

Posting Date: 8/30/90

Edit and incorporate field tape recordings of animal sounds into the collection of the Library of Natural Sounds. Prepare and enter recording data into a computerized information storage and retrieval system; catalog data for recordings in the Library. Perform routine cleaning and maintenance of recorders and associated equipment. Assist with organizing library materials.

Requirements: 2 years college coursework or equivalent in biology or related field. Some experience in the operations of studio audio equipment preferred. Strong technical aptitude. Audio theory, ornithology, or electronics knowledge preferred. Good organizational skills required. Send cover letter and resume to Sam Weeks.

Technician, GR18 (T3313)

Veterinary Microbiology-Statutory

Minimum Biweekly Salary: \$529.35

Posting Date: 8/23/90

Provide care (feed, water and clean) and monitor research animals (canines and rodents) following strict protocols for sterile or disease control environments and regulations for animal welfare. Maintain records and supply inventories. Pre-employment physical required.

Requirements: High School diploma or equivalent. Associate's preferred. Knowledge of a variety of laboratory animals and animal breeding required. Must be able to lift 100 pounds.

Animal Technician, GR18 (T2802)

Laboratory Animal Services-Statutory

Minimum Biweekly Salary: \$529.35

Posting Date: 7/19/90

Care for research animals (feed, water, clean and monitor). Follow strict protocols for sterile or disease control environments and regulations for animal welfare. Maintain animal records. May assist Vets in treating and vaccinating animals. Some weekend and holiday coverage required.

Requirements: High School diploma or equivalent. Associate's in Animal Science desired. Assistant certificate helpful. Knowledge of a variety of lab animals and animal breeding required. 1 year animal experience. Ability to lift 50 pounds. Pre-employment physical, all necessary immunizations and driver's license required. Send cover letter and resume to Sam Weeks.

Laboratory Technician, GR19 (T3510)

Food Science-Statutory

Minimum Biweekly Salary: \$551.86

Posting Date: 9/6/90

Provide technical assistance to dairy industry by monitoring quality of fluid milk and dairy products through distribution channels. Prepare dairy products from milks of different sources working department's pilot plant for quality evaluations and shelf-life studies.

Requirements: Associate's or combination of education and experience with dairy products, laboratory analyses, or plant production. Bachelor's preferred. 1-2 years experience with basic lab equipment such as pH meters, spectrophotometers, etc. Familiarity with dairy chemistry and dairy microbiology. Some experience with computers useful. Send cover letter and resume to Sam Weeks.

Research Aide, GR19 (T3303, T3304)

Chemistry-Endowed

Minimum Biweekly Salary: \$551.86

Posting Date: 8/23/90

Search chemistry journals for mass spectra. Assign chemical names. Enter information into computer database. Check errors from knowledge of mass spectra. This material will be published in the world's largest mass spectral database reference book.

Requirements: Associate's in chemistry or equivalent required. Minimum 1-2 years related work experience. Basic knowledge of mass spectra and nomenclature of organic compounds preferred. Send cover letter and resume to Sam Weeks.

Technician, GR20 (T3507)

Entomology-Statutory

Minimum Biweekly Salary: \$575.30

Posting Date: 9/6/90

Provide research support for greenhouse crop entomological studies including lab/greenhouse studies on various pests (whiteflies, spiders, mites, etc.). Assist in experimental design. Collect data and assist in interpreting and summarizing results. Use SAS or Mac software for statistical analysis. Assist with reports, publications and presentations. Assist with research related photography. Identify pests on floral crops. Coordinate insect and plant production for experiments. Maintain supplies and equipment. Assist in hiring. Work with growers and researchers.

Requirements: Bachelor's in a biological science, Master's preferred. Coursework in entomology, horticulture and statistics. Experience in greenhouse crop or horticulture production entomology; and/or statistics. Familiarity with integrated pest management, including biological control. Valid NYS pesticide applicator's license and willingness to work with pesticides. Valid NYS driver's license. Good organizational skills. Send cover letter and resume to Sam Weeks.

Technician, GR20 (T3406, T3407)

Plant Breeding and Biometry-Statutory

Minimum Biweekly Salary: \$575.30

Posting Date: 8/30/90

Evaluate plant populations, perform biochemical assays, assist in

genetic mapping of RFLP markers in barley, extract DNA, run and blot gels, isolate and screen plasmic clones, radiolabel probes, manage computer data file and analyze genetic data, assist in maintenance of lab, prepare solutions, order supplies, monitor safety, may be some supervision of grad students.

Requirements: Bachelor's in biology, genetics, biochemistry or related discipline. 1-2 years lab experience preferred.

Veterinary Technician, GR20 (T3310)
Veterinary Medical Teaching Hospital-Statutory
Minimum Biweekly Salary: \$575.30
Posting Date: 8/23/90

Maintain aseptic conditions and coordinate the medical team during surgery. Perform pre-op prep of surgery room. Assist in patient positioning and perform patient prep. Check equipment. Be available to assist as needed. Supervise sterile technique. Clean and autoclave instruments. Fold and autoclave linen. Some on-call hours required, involving occasional weekends and holidays.

Requirements: Associate's in animal health technology, NYS licensure or eligibility. Operating room experience with 2-3 years work with large animals preferred. Ability to handle and restrain large animals. Send cover letter and resume to Sam Weeks.

Technician, GR20 (T2902)
Poultry and Avian Sciences-Statutory
Minimum Biweekly Salary: \$575.30
Posting Date: 8/23/90

Provide assistance with basic and applied nutritional research. Conduct routine chemical analysis of tissues using atomic absorption spectrophotometry for minerals. Other procedures will involve use of radio-isotopes. Mix diets, handle animals (quail, chicks, laying hens and young rats) and take blood samples. Other general lab duties.

Requirements: Bachelor's in area of life sciences or equivalent. Minimum 2 years lab experience. Must be willing to learn and able to work independently. Send cover letter and resume to Sam Weeks.

Veterinary Technician, GR20 (T3309)
Veterinary Medical Teaching Hospital-Statutory
Minimum Biweekly Salary: \$575.30
Posting Date: 8/23/90

Provide support therapy for the Intensive Care Unit (ICU) patients and assist with emergency procedures. Operate and maintain life support systems including oxygen therapy, IV and subcutaneous fluid therapy, central venous pressure, electrocardiograms, trp's and respirator. Observe and treat animals following clinician orders for injections, catheter placement, food intake, exercise, sample collection, special treatments, tests, etc. Teach intensive care and emergency protocol to students assigned to ICU duty. Maintain cleanliness of cages and rooms. Keep records and order supplies. 39 hours per week, 3 p.m.-11 p.m. and 11 p.m.-7 a.m. rotating. Some weekends and holidays.

Requirements: Associate's in animal health technology with NYS licensure or eligibility. 2-3 years experience with small animals preferred and an interest in teaching critical care techniques. Send cover letter and resume to Sam Weeks.

Darkroom Technician, GR20 (T3305)
University Photography/Media Services-Statutory
Minimum Biweekly Salary: \$575.30
Posting Date: 8/23/90

Provide high quality technical lab support for 4 staff photographers and photo finishing personnel in a high volume production lab. Process b&w and color film maintaining highest quality and consistency. Perform b&w custom printing and proofing, including spotting prints; opaquing negatives; retouching; hand coloring slides; drymounting; slide mounting; and photo copying.

Requirements: Associate's in photography (or related field) or equivalent experience. Minimum 2-3 years work with a custom photographic lab. Expert knowledge of b&w and E-6 processes. Excellent interpersonal and communication skills. Adaptability to a variety of special processing needs of staff photographers and clients. Send cover letter and resume to Sam Weeks.

Animal Health Technician, GR20 (T2804)
Veterinary Medical Teaching Hospital-Statutory
Minimum Biweekly Salary: \$575.30
Posting Date: 7/19/90

Assist with emergency surgical procedures, and in-patient treatments. Compound, dispense and administer prescriptions. Prepare operating rooms for surgery and do post-op cleaning. Collect patient admission information. Keep records and maintain treatment and surgery room stock. Evening and weekend hours.

Requirements: Associate's in Animal Health Technology, NYS licensure or eligible. Experience working with large animals preferred. Send cover letter and resume to Sam Weeks.

Animal Health Technician, GR20 (T2803)
Veterinary Medical Teaching Hospital-Statutory
Minimum Biweekly Salary: \$575.30
Posting Date: 7/19/90

Assist the faculty in teaching and supervising staff, senior students and externs. Give them instruction in the proper procedures of animal health care for clinical patients. Provide emergency animal care. Work with clients. Maintain stock of supplies. Assist with paper work and records.

Requirements: Associate's in Animal Health Technology (NYS licensure or eligible). Experience working with small animals preferred. Send cover letter and resume to Sam Weeks.

Anesthesia Technician, GR20 (T1907)
Veterinary Medical Teaching Hospital-Statutory
Minimum Biweekly Salary: \$575.30
Posting Date: 5/17/90

Assist with induction, monitoring and recovery of animals under anesthesia. Prepare and maintain anesthetic equipment. Assist with the education of the senior students assigned to anesthesia. Maintain records and inventory of supplies. Schedule will include some on-call and overtime when needed.

Requirements: Associate's in animal health technology, NYS licensure or eligible. Experience working with small animals preferred. Send cover letter and resume to Sam Weeks.

Technician, GR21 (T1711)
Veterinary Pathology-Statutory
Minimum Biweekly Salary: \$599.73
Posting Date: 5/3/90

Prepare high quality microscope slides for interpretation by pathologists. Routine embedding, sectioning and staining of animal tissue. Assist with development of contemporary histopathology procedures.

Requirements: Associate's or equivalent in medical laboratory technology (Histology) or related field, with coursework in histological techniques HT(ASCP) certified or eligible. 2-4 years experience as histology technician in a hospital or research laboratory desired. Or Bachelor's or equivalent with 1-2 years experience. Pre-exposure rabies vaccine required subsequent to hire. Must be able to work independently without constant supervision. Send cover letter and resume to Sam Weeks.

Technician, GR21 (T3501)
Diagnostic Laboratory-Statutory
Minimum Biweekly Salary: \$599.73
Posting Date: 9/6/90

Conduct research toward development of new and improved immunological tests for the detection of Salmonella enteritidis infection in poultry. Purify cellular and flagellar antigens of Salmonella using various immunological techniques, analyze the avian immune response to these antigens using Western blotting and ELISAs. Order and maintain inventory of lab supplies. Supervise 1 or more student employees. Maintain lab records and prepare reports. Keep current on pertinent literature. Some weekend and overtime work.

Requirements: Bachelor's in microbiology or immunology. 3-5 years related lab experience in clinical or research lab including 1-year of lab management. Work with microbial pathogens and good aseptic technique essential. Knowledge of computers and ELISA technology desirable. Send cover letter and resume to Sam Weeks.

Lab Coordinator, GR22 (T3508)
Genetics and Development-Statutory
Minimum Biweekly Salary: \$625.24
Posting Date: 9/6/90

Prepare media for Drosophila and bacterial genetic experiments. Wash bottles and vials. Maintain mutant strains and provide them to lab students. Maintain and order supplies. Conduct trial experi-

ments. Supervise and instruct teaching assistants in basic lab operations.

Requirements: Bachelor's in biology or equivalent. 2-4 years lab experience in microbiology desirable. Excellent organizational skills; ability to work independently; able to lift 50 pounds. Send cover letter and resume to Sam Weeks.

Research Equipment Technician, GR22 (T3312)
Biomedical Electronics-Statutory
Minimum Biweekly Salary: \$625.24
Posting Date: 8/23/90

Repair and maintain electro-mechanical equipment: projectors, centrifuges, waterbaths, freeze dryers, clippers, etc. Repair and clean microscopes. Design and fabricate mechanical devices using typical machine shop and model shop equipment. Machine precision equipment and parts with or without the use of blueprints to a very close tolerance.

Requirements: Associate's or equivalent with some specialized training in electronics as well as some electro-mechanical background or equivalent. Bachelor's preferred. At least 2-4 years experience working in a model shop, with specific experience in building and servicing mechanical, electro-mechanical and electronic equipment. Must be able to get along well with a variety of people. Send cover letter and resume to Sam Weeks.

Technician, GR22 (T3203)
Applied and Engineering Physics-Endowed
Minimum Biweekly Salary: \$625.24
Posting Date: 8/16/90

Operate a vertebrate cell facility providing technical service, advice, and cell material for clients of the Development Resource for Biophysical Imaging Opto-Electronics. Maintain cell cultures; propagate cells for experiments; maintain sterile conditions for tissue culture supplies; freeze and maintain frozen stocks of cells; extract cells from animals; and perform literature searches. Assist with biophysical experiments on single cells; photograph fluorophore labeled cells; and measure cell function. Use video microscopy and digital image analysis apparatus. Develop research procedures for ongoing membrane biophysics research. Supervise part-time staff and students.

Requirements: Bachelor's in biology, biochemistry or equivalent. Minimum 2-4 years experience in cell culture methods. Experience in protein conjugation methods, spectroscopy, microscopy, biochemical purification methods, and familiarity with computers. Send cover letter and resume to Sam Weeks.

EMCS Control Technician (T3502)
M&SO/Control Shop-Endowed
Posting Date: 9/6/90

Operate the central Energy Management and Control System (EMCS) computer and all field hardware including programmable direct digital controllers and remote terminal units. Monitor campus building systems through EMCS. Evaluate control system performance and tune building system control loops. Responsible for all alarm processing, including alarm verification, central trouble-shooting and dispatching M & SO trades. Work with pneumatic, electric and electronic building control systems. Work a rotating shift schedule.

Requirements: Must have served an approved apprenticeship or have 5 years experience in the HVAC field. Computer familiarity, especially direct digital control microprocessor hardware and software desirable. Must have valid NYS driver's license. Send cover letter and resume to Sam Weeks.

Technical Temporary

Electronic Technician (T3506)
Agricultural and Biological Engineering
Hourly Rate: \$8.00
Posting Date: 9/6/90

Assist in biological engineering research projects by developing electronic lab instrumentation for measuring and recording temperature; computerized data acquisition systems; and computerized thermal control systems. Position to continue for up to 6 months.

Requirements: Associate's in electronics or equivalent. Experience with lab instrumentation and microcomputers for data acquisition and control. Some machine shop experience desirable. Send cover letter and resume to Sam Weeks.

Service Technician (T3104)
Entomology
Posting Date: 8/9/90

Provide technical assistance in an insect toxicology lab by rearing insects, conducting insecticide bioassays, performing biochemical assays, and supervising undergraduate students. 6 months.

Requirements: Bachelor's desirable, but not required, in one of the following: biology, chemistry, biochemistry, entomology or related field. Laboratory experience with chemical and/or experience with insects desirable. Good communication skills necessary. Send cover letter and resume to Sam Weeks.

College Shop Supervisor (T3004)
Mechanical and Aerospace Engineering
Posting Date: 8/2/90

Supervise the general operation of the College Machine Shop and teach basic principles of manufacturing. Supervise and instruct technicians, students and staff in uses of the CMS. Teach manufacturing related labs. Instruct graduate students in programming and operation of computer controlled load frame machines. Maintain shop facility.

Requirements: Associate's or equivalent, advanced machining skills, knowledge of computer programming and numerical control. Send cover letter and resume to Sam Weeks.

Office Professionals

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

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

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

CRT Operator, GR17 (C3521)
Animal Science/DRPL-Statutory
Minimum Biweekly Salary: \$517.65
Posting Date: 9/6/90

Responsible for data entry and verification of work using cathode ray tubes.

Requirements: High School diploma or equivalent. In lieu of CRT experience, keypunch experience would be beneficial.

Office Assistant, GR17 (C3518)
Health Services-Endowed
Minimum Biweekly Salary: \$517.65
Posting Date: 9/6/90

Provide receptionist support for the General Medical Service on the second floor of Gannett Health Center. Direct patients; answer and transfer phones; make confirming appointments; clerical support for professional staff.

Requirements: High School diploma or equivalent. Minimum 1 year general secretarial experience required; at least 1 year medical receptionist/secretary experience preferred. Computer experience required. Good interpersonal skills. Medium typing.

Duplicating Operator, GR17 (C3404)
JGSM-Endowed
Minimum Biweekly Salary: \$517.65
Posting Date: 8/30/90

Coordinate and provide duplicating and mailing services for the School's faculty, staff, and students under minimal supervision.

Requirements: High School diploma or equivalent. Six months experience in duplicating/copy operation. Familiar with U.S. Mail regulations. Routine recordkeeping and math skills.

Secretary, GR17 (C1115)
ILR-Organizational Behavior-Statutory
Minimum Biweekly Salary: \$517.65
Posting Date: 3/22/90

Typing and word processing of general correspondence, letters of recommendation, manuscripts, articles, reports for publication, creating of charts and tables, etc.; preparations for 6-9 courses per semester, including ordering of textbooks, related course material and contacting publishers; prepare course syllabi, reading lists, handouts, exams, lecture notes, etc.; arrange special meetings; handle expense vouchers; make travel arrangements.

Requirements: High School diploma or equivalent. Some secretarial science coursework preferred. 1 year experience in secretarial practices. Experience with IBM-PC and/or Macintosh using word processing software—Microsoft Word, Wordperfect. Medium typing.

Secretary, GR18 (C3513)
Agricultural Economics-Statutory
Minimum Biweekly Salary: \$529.35
Posting Date: 9/6/90

Provide administrative and secretarial support for 2 professors. Create and maintain a positive, productive and professional office environment. Prepare manuscripts and course materials (using computer); travel arrangements; contact with students and general public, and office administration.

Requirements: High School diploma or equivalent. Some college coursework preferred. 1 year related experience. Excellent communication (written and oral) skills. Good knowledge of computers using word processing, spreadsheet, and database software. Able to operate dictaphone. High level of confidentiality. Medium typing. Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Office Assistant, GR18 (C3517)
M&SO/Administrative Services-Endowed
Minimum Biweekly Salary: \$529.35
Posting Date: 9/6/90

Provide secretarial and administrative support for the Director of Utilities and the Manager of Administrative Services. Provide receptionist support for the Utilities and Administrative Services departments.

Requirements: High School diploma or equivalent. Business or secretarial school preferred. 1 year related experience. Micro-computer word processing and spreadsheet software experience required. Excellent organizational, interpersonal and communication (written and oral) skills essential. Medium typing. Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Secretary, GR18 (C3515)
Food Science-Statutory
Minimum Biweekly Salary: \$529.35
Posting Date: 9/6/90

Provide secretarial support for several faculty. Extensive use of word processor to prepare manuscripts, grants, research proposals and related teaching and extension needs; handle travel arrangements; maintain files. Other duties as assigned.

Requirements: High School diploma or equivalent. Some college coursework preferred. 1-2 years related office experience. Word processing experience required. Strong organizational, interpersonal and communication (written and oral) skills. Heavy typing with speed and accuracy.

Secretary, GR18 (C3508)
Vet Microbiology, Immunology and Parasitology (Feline Health Center)-Statutory
Minimum Biweekly Salary: \$529.35
Posting Date: 9/6/90

Manage and process professional and nonprofessional membership to the Cornell Feline Health Center, update mailing list, deposit checks for membership with F&BS. Skills utilized include word processing, database management and bookkeeping.

Requirements: High School diploma or equivalent. Secretarial college courses desirable. Minimum 1-2 years related experience. Good interpersonal and communication (written and oral) skills required.

Inventory Control Clerk, GR18 (C3514)
Information Technologies/MOS-Endowed
Minimum Biweekly Salary: \$529.35
Posting Date: 9/6/90

Under direction, work to track and monitor the MOS resale inventory. Assist in receiving and distribution of microcomputers, supplies and their peripherals; track backorders; take telephone orders; assist in periodic inventories.

Requirements: High School diploma and 1 year experience in computerized materials management. Excellent interpersonal and communication skills. Working knowledge of microcomputers. Close attention to detail. Must be able to lift 50+ pounds. Light typing. Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Searcher, GR18 (C3503)
Acquisitions-Endowed
Minimum Biweekly Salary: \$529.35
Posting Date: 9/6/90

Responsible for receiving and processing incoming Special Foreign Currencies Program and NPAC monographs, serials and newspapers.

Requirements: High School diploma or equivalent. Previous work experience. Knowledge of South Asia Languages. Knowledge of NOTIS/RLIN automated system. Some supervisory experience. Excellent organizational, interpersonal and communication skills. Heavy typing. Send cover letter and resume to Esther Smith, Staffing Services, 160 Day Hall.

Secretary, GR18 (C3402)
School of Hotel Administration-Endowed
Minimum Biweekly Salary: \$529.35
Posting Date: 8/30/90

Provide secretarial support for one full-time and one part-time faculty members. High level of confidentiality essential, requiring independent judgment and decision making.

Requirements: High School diploma or equivalent. Some college coursework. IBM computer experience necessary. Ability to organize work priorities to meet busy typing deadlines under minimum supervision. Must be adaptable and willing to take on responsibility. Heavy typing.

Secretary, GR18 (C1703)
ILR-Personnel and Human Resource Studies-Statutory
Minimum Biweekly Salary: \$529.35
Posting Date: 5/3/90

Provide secretarial support for department faculty. Use computerized hardware and software to prepare correspondence, training materials, administrative memoranda, budget, vouchers, etc.; make travel arrangements; process correspondence; handle mail; telephone contacts; appointments. Other duties as assigned.

Requirements: High School diploma or equivalent. Some college coursework preferred. 1-2 years office experience. PC experience familiar with word processing software, graphics software and spreadsheets. Medium typing.

Office Assistant, GR18 (C2710)
Agriculture and Biological Engineering-Statutory
Minimum Biweekly Salary: \$529.35
Posting Date: 7/12/90

Assist staff by registering workshop participants; performing accounting tasks; distributing publications; typing; answering telephones; traveling occasionally to workshop sites within NYS. Until 12/31/91 (renewable).

Requirements: High School diploma or equivalent. Some college coursework preferred. 1 year related office experience. Proficiency in Word Perfect required. Medium typing. Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Administrative Secretary, GR18 (C3406)
Alumni Affairs-Endowed
Minimum Biweekly Salary: \$529.35
Posting Date: 8/30/90

Provide secretarial/clerical support to the Assistant Director for Alumni Affairs/Admissions Relations. Assist with the tracking of approximately 1500 legacy admissions candidates each year; provide general admissions information to families and prospective legacy candidates.

Requirements: High School diploma or equivalent; business or secretarial school of equivalent desirable. Some related experience. Ability to work well with people, deal with sensitive situations and handle confidential material. Skills in general office procedures. Excellent organization and communication skills. Knowledge of Macintosh (Filemaker II, Microsoft Word). Heavy typing. Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Secretary, GR19 (C2501)
Career Center-Endowed
Minimum Biweekly Salary: \$551.86
Posting Date: 6/28/90

Provide secretarial support to Health Careers Evaluation Committee (a complex committee comprised of approximately 300 students and 90 faculty members) and Credential Service under general supervision, exercising independent judgment in organizing, planning and executing some projects. Large mailings; maintain files; compose routine office correspondence. Other duties as assigned.

Requirements: High School diploma or equivalent. Secretarial school preferred. 1-2 years related experience required. Knowledge of word processor and Macintosh necessary. Good organizational skills with attention to detail. Medium typing. Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza. External applicants send cover letter and resume to Esther Smith, Staffing Services, 160 Day Hall.

Secretary, GR19 (C3502)
Laboratory of Plasma Studies-Endowed
Minimum Biweekly Salary: \$551.86
Posting Date: 9/6/90

Perform and coordinate a wide variety of secretarial and administrative duties. Prepare technical proposals, manuscripts and correspondence using TEX software, assist with laboratory administration, organize and maintain the library, assist faculty, staff and students with TEX program, make travel arrangements, assist with weekly seminars, take dictation and/or use dictaphone.

Requirements: Associate's or equivalent experience as an office professional. 2-3 years experience carrying out a variety of secretarial and administrative tasks. Technical typing experience required, preferably using TEX. Excellent interpersonal, organizational and communication skills are necessary. Ability to work under pressure, occasionally. Heavy typing. Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Secretary, GR19 (C3509)
JGSM-Endowed
Minimum Biweekly Salary: \$551.86
Posting Date: 9/6/90

Provide clerical and secretarial support to the Dean's Office. Type, answer phones and assist in the preparation of reports and projects.

Requirements: Associate's or equivalent. 2 years of office experience required. Familiar with higher education and/or business management preferred. Excellent organizational and oral skills, ability to communicate and articulate with public, as well as academicians. Heavy typing. Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Secretary, GR19 (C3405)
JGSM-Endowed
Minimum Biweekly Salary: \$551.86
Posting Date: 8/30/90

Provide secretarial and administrative support to the Director of Business Operations and the School's Business Manager.

Requirements: Associate's in secretarial science. 1-2 years of general office experience. Working knowledge of Macintosh computer. Excellent organizational, interpersonal and communication (written and oral) skills. Heavy typing. Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Secretary, GR20 (C3512)
Natural Resources-Statutory
Minimum Biweekly Salary: \$575.30
Posting Date: 9/6/90

Provide administrative support in the area of teaching and research to 5 faculty members. Edit, format wordprocessing documents; develop and maintain databases; prepare coursework; library work; make travel arrangements and prepare reimbursement forms; prepare grant proposals; monitor lab; order supplies; arrange meetings; handle correspondence; maintain files.

Requirements: Associate's or equivalent experience in education/research setting. 3-5 years related experience. Knowledge of word processors. Excellent organizational, interpersonal and communication (written and oral) skills. Heavy typing. Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Administrative Aide, GR20 (C3510)
Sponsored Programs-Endowed
Minimum Biweekly Salary: \$575.30
Posting Date: 9/6/90

Provide a wide variety of administrative/secretarial functions requiring independent decision-making for the Sponsored Programs Library and an Associate Director. Represents office in relations with faculty, administrative staff and external sponsor representatives.

Requirements: Associate's or equivalent. 2-3 years related work experience. Macintosh experience required. Experience with word processing, desktop publishing and databases highly desirable. Strong interpersonal, organizational and communication skills. Attention to detail and ability to work under changing deadlines. Familiarity with University preferred. Medium typing. Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Administrative Aide, GR20 (C3403)
University Relations/Communications Strategies-Endowed
Minimum Biweekly Salary: \$575.30
Posting Date: 8/30/90

Using independent judgment, schedule and organize appointments, interviews, and other commitments for the Director of Communications Strategies. Arrange focus groups, secure appropriate background information to independently determine focus group composition; maintain all materials for appointments, focus groups, speaking engagements, communication audits, and personal interviews in connection with unit analyses and other projects.

Requirements: Associate's or equivalent and 2-3 years experience. Able to work independently. Excellent organization and communication (telephone) skills. MAC literacy essential. Heavy typing. Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Administrative Aide, GR20 (C3307)
Development, Olin Library-Endowed
Minimum Biweekly Salary: \$575.30
Posting Date: 8/23/90

Provide executive secretarial and administrative support for the Director and Assistant Director of Development and Public Affairs. Communicate with donors daily; prioritize and manage office work flow in high pressure situation; meet varied demands of 4 professional staff members under pressure of \$75M campaign; coordinate Macintosh Network in busy office.

Requirements: Associate's or equivalent combination of work experience and education. Macintosh Microsoft word processing. Familiar with IBM WP also helpful. 2-3 years related experience. Ability to complete difficult projects under pressure of time and accuracy demands. Patient telephone manner. Excellent clerical, interpersonal, communication and organizational skills. Heavy typing. Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Reference Assistant, GR20 (C3313)
Mann Library Public Services-Statutory
Minimum Biweekly Salary: \$575.30
Posting Date: 8/23/90

Provide information and reference services in Mann Library, and coordinate reference collection maintenance. Also responsible, in

the Entomology Library, for student supervision and user assistance, and provide circulation assistance and assists with collection development.

Requirements: Associate's or equivalent experience and education. Experience working in an academic/research library is desirable. Strong interpersonal and communication skills required. Ability to be self-directed, meet deadlines and pay attention to detail required. Background in life sciences or agriculture preferred. Send cover letter and resume to Esther Smith, Staffing Services, 160 Day Hall.

Service Representative, GR20 (C3207)
Network Resources/Telecommunications-Endowed
Minimum Biweekly Salary: \$575.30
Posting Date: 8/16/90

Provide administrative and secretarial support to Director, Senior Engineer and Project Coordinator. Train users of Telecomm system; process complex telephone orders, maintain database and documentation.

Requirements: High School diploma or equivalent. Associate's or equivalent desired. 3 years telecomm experience. Excellent organizational, interpersonal, communication (written and verbal) skills essential. Experience with personal computer and word processing required. Medium typing. Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Administrative Aide, GR20 (C3215)

Assistant Treasurer-Endowed
Minimum Biweekly Salary: \$575.30
Posting Date: 8/16/90

Provide high level of administrative and secretarial support to the Office of the Assistant Treasurer.

Requirements: Associate's and 3 years administrative experience with accounting and secretarial skills. Cornell accounting preferred. Strong interpersonal skills and service orientation required. Excellent organizational skills. Facility with numbers and positive attitude necessary. Mac SE and software: Word, Excel, filemaker. Must be able to work under pressure, meet deadlines, maintain confidentiality. Must be available to work overtime if needed. Medium typing. Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Administrative Aide, GR20 (C3206)

Engineering-Dean's Office-Endowed
Minimum Biweekly Salary: \$575.30
Posting Date: 8/16/90

Administrative support for Dean's Office. Receive visitors at front desk and make appropriate referrals. Prepare confidential correspondence, large mailings, arrange meetings for Dean and Associate Deans. Answer main phone for Deans Office and respond to inquiries. Act as Building Coordinator for Carpenter Hall.

Requirements: Associate's or equivalent. Minimum 2 years related experience. Must have proven ability with word processors (Apple preferred). Ability to handle highly confidential information. Medium typing. Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Administrative Aide, GR22 (C3501)

Human Service Studies-Statutory
Minimum Biweekly Salary: \$625.24
Posting Date: 9/6/90

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

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

Assistant to the Director, GR23 (C3306)

Summer Session-Endowed
Minimum Biweekly Salary: \$651.82
Posting Date: 8/23/90

Full responsibility of office management; supervisory responsibilities; assist in recruitment and admissions selection of Summer College students.

Requirements: Associate's or equivalent. Familiar with Cornell. 3 years related experience in admissions. Administrative and data systems management. Hands-on experience with IBM PC/XT. Medium typing. Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza.

Office Professionals Part-Time

Information Assistant, GR18 (C3312)

Mann Library Public Services-Statutory
Minimum full-time equivalent: \$529.35
Posting Date: 8/23/90

Provide information and reference services using online and card catalogs, RLIN database, reference books, and other library resources. Assist with projects and maintenance of reference collection. 20 hours per week; schedule to be arranged.

Requirements: High School diploma or equivalent experience and education. Some college coursework preferred. Experience working in an academic/research library is desirable. Background in life sciences, agriculture, or human ecology preferred. Strong interpersonal and communication skills required. Send cover letter and resume to Esther Smith, Staffing Services, 160 Day Hall.

Senior Records Assistant, GR18 (C3210)

Physical Sciences Library-Endowed
Minimum full-time equivalent: \$529.35
Posting Date: 8/16/90

Under the general direction of the Physical Sciences Librarian responsible for providing for the security and circulation services of the Library. Supervises and performs the operation of the circulation/reserve desk. Provide informational services to library users. Assist in the training and scheduling of student staff. Considerable lifting of heavy library materials. Pushing loaded book trucks and occasional lifting of boxes (up to 100 pounds). Monday-Friday 20 hours per week.

Requirements: High School diploma or equivalent required. 2 years of college coursework or equivalent experience required. Previous experience in library public services desired. Familiar with computers required. Excellent interpersonal, communication and organizational skills required. Send cover letter and resume to Esther Smith, Staffing Services, 160 Day Hall.

Special Collections Assistant, GR18 (C3109)

Veterinary Library-Statutory
Minimum full-time equivalent: \$529.35
Posting Date: 8/9/90

Maintain the daily operation of the Audiovisual Learning Resources Center. Answer questions and assist users in locating programs and operating the equipment; hire, train and supervise student assistants; process, catalog, organize, and maintain AV software collection (audiotapes, videotapes, slides); resolve equipment problems and perform routine maintenance; staff the Library Public Service desk. Other duties as assigned. Hours to be scheduled. 20 hours per week, Monday-Friday between 8 a.m.-5 p.m.

Requirements: High School diploma or equivalent; some college coursework preferred. 1-2 years related experience (or demonstrated aptitude) with audiovisual materials and equipment desirable. Strong service commitment. Able to work with different people in a public service setting. Excellent organizational, communications and interpersonal skills. Able to work independently. Some supervisory experience helpful. Light typing. Send cover letter and resume to Esther Smith, Staffing Services, 160 Day Hall.

Secretary, GR18 (C3028)

Human Ecology Administration-Statutory
Minimum full-time equivalent: \$529.35
Posting Date: 8/2/90

Provide clerical and office support to the Executive Staff Assistant for the Dean of the College of Human Ecology in a very busy office with a high volume of confidential and sensitive material. Hours flexible.

Requirements: High School diploma or equivalent. 2-3 years of related office experience. Experience with IBM compatible microcomputers and familiarity with Wordperfect desired. Confidentiality, attention to detail, strong communications skills required. Send cover letter and resume to Esther Smith, Staffing Services, 160 Day Hall.

Office Assistant, GR18 (C3015)

Laboratory of Ornithology-Statutory
Minimum full-time equivalent: \$529.35
Posting Date: 8/2/90

Provide general administrative, office and secretarial support for the Director of the Bioacoustic Research Program to include answering phones, typing, and filing correspondence. Other duties as assigned. Hours negotiable.

Requirements: High School diploma or equivalent in business or secretarial sciences. Good interpersonal skills required. 1 year office experience, database management and spreadsheet systems helpful. Good phone skills essential. Ability to work independently. Must be accurate and pay attention to details. Medium typing. Send cover letter and resume to Esther Smith, Staffing Services, 160 Day Hall.

Accounts Assistant, GR18 (C2414)

Dean's Office, Architecture, Art and Planning-Endowed
Minimum full-time equivalent: \$529.35
Posting Date: <

Under general supervision, assist with Dean's Office Accounting and Rome Program administration. Monday-Friday, 20 hours per week. Schedule negotiable. Until 6/30/91 contingent on funding. **Requirements:** High School diploma, some college coursework with concentration in business/accounting. 1 year experience in office setting with bookkeeping/accounting responsibilities. Ability to learn Macintosh data entry and word processing. Light typing. Send cover letter and resume to Esther Smith, Staffing Services, 160 Day Hall.

Administrative Aide, GR20 (C3314)

Associate Vice President for Human Relations-Endowed
Minimum full-time equivalent: \$575.30
Posting Date: 8/23/90

Provide administrative support for Assistant to Associate Vice President for Working Family Programs. Wordprocess correspondence; coordinate meetings; answer telephones; keep calendar; arrange travel; other projects as assigned. Monday-Friday, 5 hours per day.

Requirements: Associate's or equivalent. IBM PC WordPerfect (5.1). Cornell endowed bookkeeping and Cornell travel procedures a plus. 2-3 years related experience. Familiar with Cornell preferred. Good communication, organization and interpersonal skills. Able to maintain confidentiality. Good attention to detail and ability to work independently. Medium typing. Send cover letter and resume to Esther Smith, Staffing Services, 160 Day Hall.

Office Professionals Temporary

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

Distribution Assistant (S2001)

Agricultural and Biological Engineering
Posting Date: 5/24/90

Assist in distribution of publications. Enter orders in computer, print invoices, pack boxes, prepare for mailing. Assist in marketing and other office duties. Answer phones. Monday-Friday, 8-12.

Requirements: Familiarity with Macintosh computer. Able to lift 40 pound boxes. Send cover letter and resume to Karen Raponi, Staffing Services, 160 Day Hall.

Museum Education Assistant (S3201)

Johnson Museum
Posting Date: 8/16/90

Assist with planning, implementation, documentation and evaluation of museum education programs. Includes ongoing museum/school program, weekend art workshops, thematic and introductory museum tours of permanent collections and special exhibitions and public program events. Tuesday, Wednesday, Thursday, including weekends (flexible), 9 a.m.-3 p.m. 20 hours per week. Until June 12, 1991.

Requirements: Bachelor's, BFA in fine arts, art history, art education, museum studies or related field. Excellent verbal and written skills. Familiarity with varied art techniques and processes. At least 2 years teaching experience on elementary or secondary level in art programs essential. Ability to work independently, meet deadlines and solve problems. Send cover letter and resume to Karen Raponi, Staffing Services, 160 Day Hall.

Office Assistant (S2407)

Dean of Students
Posting Date: 6/21/90

Responsible for answering, screening, and recording phone messages for the Dean of Students Office staff. Act as receptionist for all incoming visitors to the office. Deliver, pick-up and sort mail. Daily contact with the university community, local Ithaca community, student, faculty, staff and parents. Assist other support staff

with special projects as needed.

Requirements: High School diploma or equivalent. Excellent telephone techniques and communication skills imperative. Articulate and personable and able to work in a high-pressured, fast paced office. Good interpersonal and listening skills necessary. Previous office work and dealing with a diversified public preferred. Minorities are particularly encouraged to apply. Send cover letter and resume to Karen Raponi, Staffing Services, 160 Day Hall.

General Service

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

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

Dish Machine Operator, SO02 (G3504)

Dining-Endowed
Hiring Rate: \$6.27
Posting Date: 9/6/90

Wash dishes, utensils, pots and pans. Stock assigned areas. Shift subject to change.

Requirements: Ability to learn proper use of dishwashing equipment and cleaning agents. Able to lift 35 pounds. Cornell employees only. Send employee transfer application to Esther Smith, Staffing Services, East Hill Plaza.

Food Service Worker, SO02 (G3505)

Dining-Endowed
Hiring Rate: \$6.27
Posting Date: 9/6/90

Prepare, present and serve food items for Co-op, cash, catering or special events. Shift subject to change.

Requirements: Basic reading and writing skills. 1 year related experience. Working knowledge of food preparation and presentation. Able to operate choppers, slicers, mixers, ovens, steam kettles, pressure steamers and various hand tools. Good customer relation skills. Cornell employees only. Send employee transfer application to Esther Smith, Staffing Services, East Hill Plaza.

Custodian, SO02 (G3506)

Unions and Activities/Robert Purcell Union-Endowed
Hiring Rate: \$6.27
Posting Date: 9/6/90

Perform custodial duties in assigned areas to include mopping, dusting and vacuuming. Wednesday-Sunday; 9 a.m.-5:30 p.m. **Requirements:** Basic reading and writing skills. Some experience in custodial work using commercial cleaning equipment. Must be able to lift 50 pounds, climb an 8 foot ladder, and be in good physical condition. Must be able to follow instructions and work efficiently for extended periods without supervision.

Material Handler, SO04 (G3403)

Athletics-Endowed
Hiring Rate: \$6.88
Posting Date: 8/30/90

Under general supervision, provide assistance in the equipment room by reconditioning/repairing athletic equipment; receiving; maintaining records and coordinating laundry needs. Monday-Friday, second shift.

Requirements: High School diploma or equivalent. 2-3 years related experience. Fitting and reconditioning of protective equipment and commercial laundry skills required. Cornell employees send employee transfer application to Esther Smith, Staffing Services, East Hill Plaza.

Dispatcher, SO05 (G3501)

M&SO/Customer Service Center-Endowed
Hiring Rate: \$7.19
Posting Date: 9/6/90

Receive any trouble calls, relay messages and coordinate and dispatch appropriate tradespeople and material delivery personnel, or courier/cab service as requested. The Customer Service Center is the focal point of requests for repairs, maintenance and alterations, and information about the physical plant. Monday-Friday, 7:30-4.

Requirements: High School diploma or equivalent. Experience with mainframe and personal computers desirable. Training and/or experience in public relations, sales or service preferred. Must have excellent interpersonal skills, ability to work well under pressure and strong decision making. Medium typing. Cornell employees send employee transfer application, cover letter and resume to Esther Smith, Staffing Services, East Hill Plaza. External applicants send cover letter and resume to Esther Smith, Staffing Services, 160 Day Hall. Women, minorities and people with disabilities particularly encouraged to apply.

Baker, SO06 (G3502)

Dining-Endowed
Hiring Rate: \$7.52
Posting Date: 9/6/90

Prepare full variety of baked goods including rolls, breads, cakes, cookies and pastries. Decorate baked goods. Shift subject to change.

Requirements: High School diploma or equivalent. 1 year related experience. Working knowledge of choppers, dough sheeters, ovens, mixers, proffing cabinet and various hand tools. Good interpersonal, communication and organizational skills. Cornell employees only. Send employee transfer application to Esther Smith, Staffing Services, East Hill Plaza.

Cook, SO06 (G3503)

Dining-Endowed
Hiring Rate: \$7.52
Posting Date: 9/6/90

Under general supervision, responsible for the preparation of a variety of foods as assigned by Cook, SO08, for service through own efforts and/or supervision of kitchen employees, for Co-op, cash, catering and special events. 40 hours per week.

Requirements: High School diploma or equivalent. 1-2 years experience, or equivalent in food preparation and knowledge of food cooking processes, e.g. grilling, frying, roasting, and steaming (in an institutional environment preferred). Skilled in presenting and garnishing food. Working knowledge of the following equipment: charbroilers, steam jacket kettles, pressure steamers, fryers, ovens, slicers, mixers, choppers, and various hand tools. Good interpersonal and communication skills preferred. Cornell employees only. Send employee transfer application to Esther Smith, Staffing Services, East Hill Plaza.

General Service Temporary

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

Custodian

Building Care-Endowed/Statutory
Temporary Rate: \$5.00

Continuous recruitment will be done in the department of Building Care for temporary custodians. Provide general custodial care in buildings and grounds in immediate vicinity of assigned area Monday-Thursday 6:00am-2:30pm, Friday 6:00a.m-1:30pm. Periodically 2nd and 3rd shift hours are available.

Requirements: Basic reading and writing skills. Able to operate variety of heavy power equipment, lift 50 pounds and climb a 6' ladder.

General Service

Send application materials for the following positions to Cynthia Smithbower, 160 Day Hall.

Printing Assistant, SO03 (B3402)

Media Services-Statutory
Hiring Rate: \$6.56
Posting Date: 8/30/90

Operate automated bindery equipment and other paper handling devices, otherwise completing the printing production cycle in the volume printing center. Operate Bourg 15 bin collator, 9 bin Borden Modulon Collator, Challenge 30" power paper cutter, Shiole 10" Read and Interpret job specs. Perform general housekeeping work area. Maintain confidentiality of printed materials. Monday-Thursday, 8-5; Friday, 8-4.

Requirements: High School diploma or equivalent. Vocational training in printing helpful. 2 years experience in commercial printing shop bindery preferred or proven mechanical ability in similar work experience. Send application materials to Cynthia Smithbower.

Field Assistant, SO05 (B3401)

Soil, Crop, Atmospheric Sciences-Statutory
Hiring Rate: \$7.19
Posting Date: 8/30/90

Assist in completion of operations necessary for field research in farming operations: plowing, fitting, planting, spraying, harvesting and transporting. Some land improvement projects, maintenance of equipment or facilities, securing facilities. Weekdays, 39 hours per week.

Requirements: NYS Commercial Pesticide Applicator Permit or NYS Class III driver's license. Knowledge of operation and maintenance of tractors, plows, cultivators, harrows, discs, cultipackers, drills, cultimulchers, corn planters, mowers, hay rakes and balers. Ability to lift 80 pounds. Send application materials to Cynthia Smithbower.

Academic

Postdoctoral Research Associate

Materials Science and Engineering

A position is available for research using transmission electron microscopy. It requires experience in a wide range of experimental and computational techniques (details available upon request). Familiarity with dislocations, grain boundaries and phase boundaries in ceramic materials and semiconductors, and the interaction of layer materials is essential. Proficiency in use of computer for processing and simulating microscope images is required. **Requirements:** PhD in physics or materials science, with 3 years postdoctoral experience. Salary will be \$25,000 per year or more. Send applications to Carol M. Farkas, Materials Science and Engineering, Bard Hall, Cornell University, Ithaca, NY 14853.

Dean

Summer Session and Extramural Programs

Cornell University is seeking an innovative and dynamic Dean of its Division of Summer Session and Extramural Programs. The Dean will develop, administer, and market educational programs that serve a wide variety of constituencies not addressed by its other colleges and units and to promote the full utilization of university facilities throughout the year. The Dean will be responsible for substantial restructuring of the administrative and financial relationships of the division to the other colleges and units. The Dean will report to the Provost and will work closely with other academic units, whose faculty and staff are critical to carrying out the college's mission.

Requirements: The successful candidate will have academic and administrative experience appropriate to performing the academic, outreach, and administrative aspects of the position. He or she must also have excellent organizational and communication skills, enthusiasm for the challenge of creating something new and addressing diverse constituencies, and will have demonstrated entrepreneurial creativity within an educational environment. To apply, send cover letter, curriculum vitae, and names of 3 references to the Manager of Staffing Services, 160 Day Hall, Cornell University, Ithaca, NY 14853 by October 15, 1990.

Weight Watchers at Work Program

A new eight week Weight Watchers at Work program is again being offered to employees of Cornell. You can register on Wednesday, September 12, from 12:00 noon to 12:45 at Anabel Taylor Hall auditorium. All employees are invited to attend. You may call Weight Watchers toll-free number at 1-800-234-8080 for more information.

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