

Cornell CHRONICLE

Volume 18 Number 3 September 11, 1986

CU research reaches \$224 million

Cornell's researchers conducted \$224 million in studies in 1985-86, a 12 percent increase over the year before and a level nearly double 1980's research volume of \$113.6 million.

Nearly two-thirds of funding support for research — some \$142 million — came from the federal government, according to the 1985-86 report of the Cornell Office of Sponsored Programs.

The report covers expenditures by Cornell researchers between July 1, 1985, and June 30, 1986. Not included in the tally is the value of gifts such as laboratory equipment and computers that are used for research.

Federal government grants and contracts, which accounted for more than \$138 million of the federal support, increased 13.1 percent from the year before.

The primary source of federal support was the National Science Foundation, where \$63.2 million in funding for Cornell research represented an increase of 18.4 percent over 1985. Among programs receiving substantial NSF funding at Cornell are the national supercomputer program here, known as the Center for Theory and Simulation in Science and Engineering, and the high-energy physics studies at the Wilson Synchrotron Laboratory, also a national center.

The next-largest source of federal funding was the Public Health Service, with \$18.6 million in support representing a 14.3 percent rise from 1985. Most health-related research at Cornell is conducted in the Medical College, the College of Veterinary Medicine, and the Biological Sciences and Nutritional Sciences divisions.

Department of Defense funding rose 19.3 percent to \$8.06 million in Cornell's 1986 fiscal year. The largest defense-related increase, 31.1 percent over 1985, came from the Army, which last year established the Mathematical Sciences Institute at Cornell. Defense-related research accounted for 7.7 percent of all federally sponsored expenditures at Cornell last year.

Other major sources of federal funding were the Department of Energy (\$3.2 million), which supports research at the Laboratory of Plasma Studies; the National Aeronautics and Space Administration (\$2.8 million), which funds research in astronomy and electrical engineering; and the Department of Agriculture (\$4.1 million), a prime supporter of research in the College of Agriculture and Life Sciences.

Corporations and trade associations sponsored \$14.6 million in research during Cornell's 1986 fiscal year. That was 6.5 percent of all research, a proportion that has been rising steadily over the past several years. Cornell ranked third among major research universities receiving corporate support in 1984, the most recent year for which comparisons are available.

New York State and local governments provided \$31.6 million in research support. Major recipients of state research funding were the Colleges of Veterinary Medicine and of Agriculture and Life Sciences. Also receiving state support were the Biotechnology Program and the supercomputer center.

Cornell's Medical College in New York City accounted for about one-fifth of the research expenditures, with \$46.6 million representing a 9.4 percent increase in funding over the previous year. Researchers in the College of Engineering and the College of Arts and Sciences spent nearly one-half of the total, or \$103.1 million, a 17 percent increase. Scientific studies in the state colleges at Cornell had one-third of all expenditures, or \$74.6 million, a 7.3 percent increase.

— Roger Segelken

Total Research Expenditures by Discipline

	In millions of dollars
Agriculture	31.5
Economics	3.1
Engineering	31.1
Environmental Sciences	4.7
Humanities	1.0
Life Sciences	29.1
Math & Computer Science	4.8
Medical	58.0
National Astronomy and Ionosphere Center	8.1
Physical Sciences	38.8
Political Sciences	0.2
Psychology	2.0
Social Sciences - Other	2.6
Sociology	1.8
Theory Center	6.6
Unclassified	0.8
Total Research Expenditures	224.2

Briggs: Link immigration, labor needs

The United States must prohibit employers from hiring illegal immigrants, offer amnesty to aliens residing unlawfully in this country and create a nationwide worker identification program, a Cornell immigration expert believes.

Immigration should be based primarily on the country's labor needs, not family reunification, Vernon M. Briggs Jr. said. He is chairman of the National Council on Employment Policy and author of the book "Immigration Policy and the American Labor Force." The council is a private organization which advises the U.S. government.

"We cannot continue with an immigration policy that is designed to meet political objectives and which largely ignores its substantial economic consequences," he said. "A strong nation must be able to control its borders, but chances are slim that Congress will complete action on pending reform measures this fall."

If immigration reform fails, a subculture of 8 to 10 million illegal aliens with no rights



Vernon M. Briggs Jr.

will grow larger, weakening America's political system and damaging its world leadership position, Briggs said. This year, border patrols will apprehend nearly 2 million people trying to illegally enter the country, he said.

A bill passed by the Senate and being considered by the House would prohibit employers from hiring illegal immigrants and offer amnesty to illegal aliens who have lived in the United States for at least seven years.

"If you don't penalize employers for hiring

Continued to page 2

University officials add up effects of tax revision plan

Proposed revisions in the nation's tax code are likely to have a substantial effect on the personal finances of Cornell's faculty, staff and students as well as on the university's fund-raising and financing activities, university officials told the Executive Committee of the Board of Trustees at last week's meeting in New York City.

Highlights of the changes include:

- The portion of scholarship aid that covers living expenses will be taxable, and interest on education loans no longer will be deductible.

- Gifts to Cornell will bring donors smaller tax incentives.

- Restrictions on the use of tax-exempt bonds will increase the costs of capital construction.

"It's going to be a very cold shower," Cornell President Frank Rhodes said of the proposed changes. "I'm not sure, though, that when the dust settles, the results will be as dire as some have forecast. But there is no doubt we will have to be creative to overcome the effects of the legislation."

As part of this effort, John F. Burness, Cornell's vice president for university rela-



2
Chamber music series

Campus store:
On beyond textbooks



3 Watching Cornell



Sports action begins



Irving Janis will lecture

Psychologist Irving L. Janis, an emeritus professor of Yale University and the author of "Groupthink," will give Cornell's fall Messenger Lectures on crisis decisions in the nuclear age.

The six lectures will be given in Hollis E. Cornell Auditorium of Goldwin Smith Hall Sept. 16, 17, 19, 22, 24 and 26. Lectures will begin at 4:30 p.m. They are free and open to the public. Janis' topics will be:

- "Problems of International Crisis Management: An Overview," Sept. 16.

- "Major Sources of Miscalculation and Faulty Planning," Sept. 17.

- "Vigilant Problem Solving: Is it Worth the Cost?" Sept. 19.

- "The Constraints Model: A Theoretical Framework for Analyzing Crisis Mismanagement," Sept. 22.

- "Applying the Model to 'Hardball Politics,' Power Struggles and Negotiating Settlements," Sept. 24.

- "Preventing Errors that could Lead to Inadvertent Nuclear War," Sept. 26.

Janis, 68, has written extensively on decision making under stress at both the individual and group levels.

He received the American Psychological Association's Distinguished Scientific Contribution Award in 1981 and the 1985 Kurt Lewin Memorial Award.

Continued to page 7

Guarneri String Quartet to open chamber music series

Members of the world renowned Guarneri String Quartet, will give the opening concert of the 1986-87 Cornell Chamber Music Series in Statler Auditorium on Oct. 1 at 8:15 p.m. The program will include quartets by Shostakovich, Beethoven and Smetana.

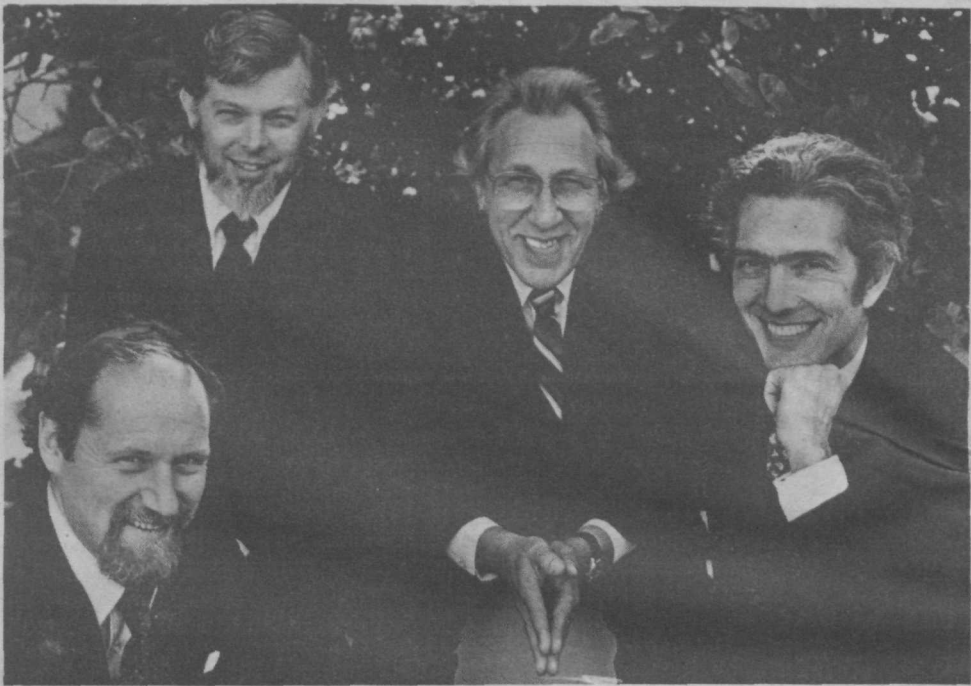
The Guarneri String Quartet — Arnold Steinhardt and John Dalley, violins; Michael Tree, viola; and David Soyer, cello — has made three tours of Australia, toured Japan and New Zealand and has been heard at major international music festivals.

This year marks the quartet's 22nd season, and will include two tours of Europe, and a transcontinental tour of the United States and Canada. In New York the ensemble continues its annual series of "Guarneri and Friends" at Alice Tully Hall, at the Metropolitan Museum of Art and at the 92nd Street Y.

Members of the quartet serve on the faculty of the Curtis Institute of Philadelphia and of the University of Maryland. Their recordings, several of which have won international awards, are exclusively on the RCA Red Seal label. Among the recordings are collaborations with such artists as Arthur Rubinstein and Pinchas Zukerman.

Tickets for the concert go on sale, Sept. 16 at the Lincoln Hall ticket office. Subscriptions at a considerable saving are still available for the Statler Series, which will also include cellist Janos Starker on Nov. 20, Danish recorder virtuoso Michala Petri on March 18 and master of the sitar Ravi Shankar on April 7.

The ticket office is open Monday through Friday between 9 a.m. and 1 p.m. Telephone: 255-5144.



The world renowned Guarneri String Quartet will perform in Statler Auditorium Oct. 1.

Notable

Daniel P. Loucks, professor of civil and environmental engineering, has won the 1986 American Society of Civil Engineers' Julian Hinds Award. Loucks was cited for "outstanding contributions to the advancement of knowledge of water resource systems analysis and its application to the planning and management of water resources worldwide." The award, which includes a \$1,000 honorarium, was presented Aug. 4 at the society's Water Forum '86 in Long Beach, CA.

David R. McCann of the Asian Studies department has been promoted from adjunct assistant professor to adjunct associate professor, as of July 1, 1986. McCann, who received a B.A. from Amherst College and an M.A. and Ph.D. from Harvard University, is a specialist in Korean literature and language and in Japanese literature, and he has taught courses on Japanese film, literature and classical language and on Asian-American literature.

Barbara L. Peckarsky, associate professor of entomology and a specialist in aquatic insect ecology, will conduct research at the University of Karlsruhe in West Germany next year as an American Fulbright Scholar. As the fourth Cornell faculty member awarded a Fulbright this year, she will be among some 1,000 Americans working abroad during the 1986-87 academic year under the federally-funded Fulbright program.

Ritch C. Savin-Williams, associate professor of human development and family studies, received the Mark Freedman Memorial

Award from the Association of Lesbian and Gay Psychologists of the American Psychological Association for "the most outstanding research paper on homosexuality" at the association's annual meeting in August.

Edward A. Schano has been elected professor emeritus of poultry and avian sciences, effective June 1, 1986. A member of the faculty in the College of Agriculture and Life Sciences for 34 years, Schano originated the Cornell 4-H incubation and embryology project.

John G. Seeley, professor of floricultural science emeritus, was presented with an award of appreciation by the International Society for Horticultural Science at a recent International Horticulture Congress in Davis, CA.

More garage delays

Completion of the 700-space parking garage on campus is now scheduled for the week of Sept. 29. Temporary parking arrangements now in effect will continue.

Obituaries

Natalie Kazmierski

A memorial service for Natalie Kazmierski is scheduled for Sept. 30 at 1:15 p.m. in Anabel Taylor Hall.

Ms. Kazmierski, coordinator of women's services in the university's Office of Equal Opportunity, died Sept. 2 from injuries received when she was struck by an automobile Aug. 31 in Scranton, Pa. She was 33.

Ms. Kazmierski joined the Cornell staff in 1984, after seven years as an administrator with the State University of New York system, first in Albany and then Binghamton. She earned bachelor's and master's degrees at SUNY Albany.

Survivors include her mother, Nellie Kazmierski, and an aunt, Natalie Lass, both of Little Falls, and aunts, uncles and cousins in Poland.

Briefs

- **Admissions information for high school students:** An informational program for high school students and their families will be held Sept. 23, 7:45 to 9:30 p.m. in 120 Ives Hall to discuss selective college admissions, application procedures for financial aid and specific Cornell programs and opportunities.
- **AIDS testing continues:** Dr. Robert Gold of New York's Memorial Sloan Kettering Cancer Center will be on campus Sept. 15 - 18 to continue his AIDS research. Anyone interested in participating in his study or learning more about it may call Dr. Allyn Ley at Gannett Health Center, 255-3564. Apart from Gold's study, testing for the presence of the HTLV-III antibody can be done at the health center by appointment.

Immigration

Continued from page 1

illegal aliens, there's nothing you can do, short of patrolling the borders with tanks, to keep people from sneaking into the country," Briggs, a professor of industrial and labor relations, said. "We have to take away the attraction of jobs."

"But those who entered the country while it was ambivalent about enforcing its immigration laws should stay. Trying to force them out of the country would be a legal nightmare that would take a century to resolve."

In Briggs' view, lawmakers should not adopt temporary worker programs endorsed by Southwest agricultural interests. The Senate bill includes a program that would allow 350,000 foreigners to work in agriculture without ensuring that the workers are housed and fed. A House proposal would allow any person who worked in American agriculture for at least 60 days during the previous year to become a resident alien, making that person eligible for citizenship after five years.

"These programs open avenues for more illegal immigrants to enter the country," Briggs said. "Southwest agriculture hires illegal immigrants as cheap labor and then says it can't find citizens to work at those wages. It's a self-fulfilling prophecy."

Construction problems hotline: 255-4394

Don't park your parking problems with the office of Vice President Robert Matyas.

We goofed last week and directed parking problems caused by construction on campus to his office. When we called to apologize, we were reminded, in a friendly way, that he is vice president for facilities and business operations, not vice president for parking!

So, anyone with problems OTHER THAN PARKING arising out of construction on campus, such as excessive dust or noise, may call 255-4394, or one of the 24 unit coordinators set up to handle such calls. PARKING PROBLEMS, including questions about obtaining permits, should be directed to 255-4600, the office of Bill Wendt, director of transportation.

Parking problems hotline: 255-4600

"The Southwest has become addicted to employing illegal immigrants. It's time to break the habit, because agricultural labor is still cheaper in other nations. If American agriculture limits mechanization to rely on labor, even inexpensive labor of illegal immigrants, it will still in the long-run be priced out of international markets."

The United States needs to identify people who are entitled to work, just as western European nations do through work permits, Briggs said. Current identification cards, including Social Security and driver's licenses, are too easily forged.

The government should issue cards similar to credit cards or a right-to-work number that could be confirmed by prospective employers just as sales clerks verify a credit card purchase, he suggested.

"All employers would be required to check every prospective employee — white, black, Hispanic. This would not violate anyone's rights. It would protect legal residents' right to work," Briggs said.

Immigration — legal and illegal — is the largest source of growth in America's labor force, but only 20 percent of legal immigration is based on occupational skills that match the country's labor needs. Up to 80 percent of all visas are awarded to relatives of American citizens.

"The current legal system is nepotism, pure and simple," Briggs said. "It's a basic tenet of human rights that nations shouldn't keep people from leaving, but there's no requirement that nations accept all who want to enter."

— Mark Eyerly

Student employment wage scale revised

The university has adopted a revised student employment wage scale. It provides merit increases exclusive of longevity, starting wages reflecting skills and opens the possibility for higher starting wages for less popular jobs.

The changes, which were effective as of Aug. 28, are based on the recommendations of a committee appointed by Provost Robert Barker last spring. The previous scale was established in 1983.

A detailed description of the changes has been sent to university employers and payroll clerks throughout campus, said Dennis Chavez, director of student employment for the University Office Financial Aid and Student Employment.

There are six starting levels in the new scale ranging of from \$3.35 to \$3.50 per hour for level 1. Top scale, level 6, pays from \$5 to \$8 an hour. Longevity increases of 10 or 15 cents an hour are required after working a minimum of 200 hours. Merit raises of five cent increments can be given at the end of each term.

The provost's committee recommended that the Student Employment Office periodically review the starting wages to "insure that factors such as the cost of living, tuition, self help levels and minimum wage increase are considered and reflected in starting wages."

Copies of the new scale are available in the student employment office on the second floor of Day Hall. Chavez will answer questions concerning the changes.

Cornell CHRONICLE

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CIRCULATION MANAGER: Joanne Hanavan

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

Commercial to feature footage shot at Cornell

Cornell students and campus scenes will be seen by millions of people in Japan in a 30-second television commercial that took four weekends to scout and shoot.

More than 100 Cornell students and 18 Japanese and American film technicians and actors produced the brief advertising film, which a major Japanese watch company will use to introduce a new product in November.

"They told us we are going to be just a flash on the screen," said Beth Ehrhardt of Beaver Dam, Wisc., a sophomore in the College of Arts and Sciences.

Mythical touchdown

Ehrhardt was one of about 90 students who sat in the otherwise empty Crescent grandstand near the 10-yard line at Schoellkopf Field Saturday morning waving Cornell pennants and red and white pompons and cheering a mythical touchdown.

"The Japanese company making this film wanted college scenes from an Ivy League school," said Yen Hong, the assistant director from Los Angeles. "Japanese young people are attracted by the preppy look, and Ivy League schools are known in Japan. We scouted each of the Ivy League schools. One school showed no interest. Another wanted us to pay a big fee."

"We selected Cornell because of its traditional buildings, the logistics and the great cooperation we received from David Stewart."

Stewart, a member of the University Relations staff, scouted shooting locales and made filming arrangements with students and officials. He was assisted by Jim Mazza, a junior in Communication Arts.

Cloudy skies

Cloudy skies delayed most scenes. Hong and her crew kept the volunteer students in the football stadium nearly three hours, practiced the brief cheering scene a dozen times

and filmed it six times between infrequent breaks in the clouds before the director was satisfied.

"Now we know why they moved the film business from Ithaca to Hollywood," said Rachel Lee, an Arts and Science junior from Livingston, N.J., referring to the early 1900s when Ithaca was a film center.

Most of the football stadium extras volunteered from four fraternities and sororities founded at Cornell: Delta Chi, Alpha Phi Alpha, Sigma Delta Tau and Alpha Kappa Alpha. The Japanese company will donate at least \$1,000 for Cornell scholarships.

Because clouds delayed stadium shots nearly 30 minutes, Hong paid each student an extra \$10 on the spot, collected from the Tokyo film crew.

The 30 seconds at Cornell will flash on screens in millions of homes in Japan, a nation as saturated with television as is the United States.

"But I won't know any of those Japanese, and I won't be able to tell them, 'Look, that's me,'" said Earl Exum, sophomore in Arts and Sciences from Rosedale, Queens, N.Y.

On the spot

Some students not recruited as extras joined on the spot.

"My girlfriend and I came to the stadium to watch a scrimmage and saw the crowd and asked if we could be extras," said Joannie Anderson, an Arts and Sciences sophomore from Bloomfield Hills, Mich. They were accepted immediately and signed the releases required for use of their pictures in advertising.

Other scenes were shot at Myron Taylor Hall, Willard Straight Hall, Risley Hall, Balch Hall and Lincoln Hall, where the sun hit the ivy at the right camera angle.

One month before the actual shooting, Stewart selected possible campus scenes. An



Shouting till they were hoarse, student extras in a television commercial filmed on campus last weekend practised a football cheering scene a dozen times before it was filmed.

advance photographer then came to the campus to make still pictures. A week later, a seven-man filming crew flew to Ithaca from Tokyo to survey the campus.

They were joined a week later by American film technicians, a professional actor and make-up artist from New York and two film

students from Ithaca College.

The two-nation film company traveled around the campus in a truck loaded with lighting and other production equipment, a personnel van and cars to give Japan's 120 million people a 30-second glance at Cornell.

— Albert E. Kaff

Campus store: A new approach to service

If you think the Cornell Campus Store is just textbooks and pencils, long checkout lines and boredom, shop again.

The next time you visit the campus store, you may find a faster checkout line, be given a candy bar, or have a chance to buy an originally autographed copy of a New York Times best seller.

"We're taking a new approach," says Richard McDaniel, campus store director.

"Instead of thinking of economics, our

approach is customer service."

That goal, says McDaniel, is to make the campus store "part of the university fabric."

According to McDaniel, who was named director in January, the best way to accomplish this objective is by an increased number of services, better communication with faculty and students, and a clean and festive environment.

"As long as we provide the types of services that students and faculty want, and

make the store an enjoyable place to be, the economic side of the business will take care of itself," McDaniel says.

Since January, McDaniel and his staff have added nearly two dozen services, beyond the more traditional textbook and backpack trade. These services, he says, are based on the needs of faculty and students.

Some of the services include:

- Call-in orders and deliveries to handicapped students.
- A satellite store at Entrepot in Noyes Lodge for service to the northern end of campus.
- Two on-campus photocopy centers, one at Entrepot and one at Willard Straight Hall.
- Medical garb for veterinary medicine students.
- Concessions at Cornell football games, including pennants, key rings, and other grid-iron novelties.
- "Rent-a-Mac" computer services for students who need access to computers but don't want to buy them.
- A note-taking service. TA's notes are put onto Macintosh PC disks and made available to students.

McDaniel points out that many of these services were developed as a result of better communication with faculty and students. Through phone calls, letters, meetings, and focus groups, McDaniel has tried to pinpoint the needs of students and faculty.

This contact, he says, is beneficial to the entire campus community. For example, McDaniel urged faculty members to turn in fall semester book orders three months earlier than in past years. By doing so, store managers had a better handle on the titles and numbers of books needed for the fall semester. Students selling used volumes of these books earned higher buy-back amounts, because store managers knew they could sell these books again.

"Simply by letting the faculty know how buy-back works, we were able to pay more to the students than before," says McDaniel. "It could mean the difference in paying someone \$50, instead of \$10."

McDaniel says, however, that adding services and talking to faculty and students is just part of the new approach. He wants to make the store a fun place.

"We're trying to make the store more festive," he says. "Innovations such as welcome

signs for foreign and conference visitors, international flags, and displays celebrating Cornell worldwide will be the norm. We're planning to target our activities to particular groups of people to make them feel welcome."

In addition, a number of events have been planned to coincide with other campus activities, including Spring Fest '86, alumni weekend, and homecoming, among others.

"By tying into a theme, we make the store part of the festivities, a fun place to come to," says Jan Dorman, campus store associate director.

Autograph sessions with famous authors and store give-aways of candy and toiletry sets are among the plans. In some cases, MacDaniel says, store hours will be extended.

So far, the results are encouraging, he says. "Event-oriented" weekends, such as commencement, have produced sales increases as high as 65 percent, a trend McDaniel predicts will continue.

"We've got a long way to go. It really is a new vision for the store and its employees," McDaniel concedes. "But, I think we're on the right track."

— James A. Mazza

Barton Blotter Valuables stolen

A total of \$3,141 in cash and valuables was stolen on campus during the seven-day period Aug. 28 through Sept. 3, according to the morning reports of the Department of Public Safety.

Six of the 15 reported thefts were of cash taken from wallets and purses including \$200 at Sage Hall and \$170 from Myron Taylor Hall.

Other thefts included a \$490 camera and equipment stolen in Willard Straight Hall, a \$300 arm chair taken from Lyons Hall, two wooden arm chairs worth \$300 taken from University Hall No. 1, a \$415 cassette-radio stereo removed from a car in Kite Hill Parking Lot, and \$280 bicycle stolen from 14 South Ave.

One person was referred to the judicial administrator for forging a parking permit. Emmanouil Tsimouris of 6 South St. was charged with driving while intoxicated.



CALENDAR

All items for publication in the Calendar section, except for seminar notices, should be submitted (typewritten, double spaced) by mail or in person to Fran Apgar, Central Reservations, 531 Willard Straight Hall, who prepares the Calendar notices for these listings. She must receive the notices at least 10 days prior to publication. Items should include the name and telephone number of a person who can be called if there are questions, and also the subheading of the calendar in which it should appear (lectures, dance, music, etc.).

Seminars only should arrive at the Chronicle office, 110 Day Hall, no later than noon Thursday prior to publication.

All deadlines will be strictly enforced.

DANCE

Cornell Folkdancers

The Cornell Folkdancers will meet in the North Room of Willard Straight Hall on Sundays throughout September. Instruction from 7:30 to 8:30 followed by request dancing until 10:30 p.m. Free. Beginners welcome. No partners needed. For more information, call 257-3156 or 255-7149.

Israeli Folkdancing

Folkdancing every Thursday at 8:30 p.m. in the Edwards Room, Anabel Taylor Hall.

EXHIBITS

Hartell Gallery, Sibley Hall

"Transforming the American Garden: 12 New Landscape Designs." Presented by The Landscape Architecture Program, Monday through Friday from 9 a.m. to 5 p.m.

Johnson Art Museum

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

"Cornell University Art Department Exhibition," Sept. 12 through Oct. 26.

"Frank Lloyd Wright and the Johnson Wax Buildings; Creating a Corporate Cathedral," Sept. 26 through Nov. 9.

Olin Library

American Anniversary — The Declaration of Independence, the political events that led up to it, the patriots who composed it, signed and fought for it, together with photographs of the Statue of Liberty will be exhibited through mid-September. Monday through Friday from 8 a.m. to noon and 1 to 5 p.m.

Tjaden Hall Gallery

"Photographs & Cyanotypes by Laurie Sieverts Snyder," Sept. 14 to 20.



FILMS

Unless otherwise noted, films are sponsored by Cornell Cinema. An (*) indicates admission is charged.

Thursday 9/11

"Film Dance I," with guest filmmaker Amy Greenfield. Films by Maya Deren, Pooh Kaye, Shirley Clarke, Leni Riefenstahl, and others. 8 p.m. Uris Hall Auditorium. Co-sponsored with Pentangle.

Friday 9/12

"Henry IV." 7:15 p.m. *Uris Hall Auditorium.

Friday and Saturday 9/12, 9/13

"The Color Purple" (1985), directed by Steven Spielberg, with Whoopi Goldberg, Danny Glover and Margaret Avery. 7:15 p.m. *Statler.

"Absolute Beginners" (1986), directed by Julien Temple, with Eddie Connell, David Bowie and Patsy Kensit. 10:30 p.m. *Uris Hall Auditorium.

Saturday 9/13

"Henry IV." 9:45 p.m. *Uris Hall Auditorium.

Sunday 9/14

"Film Dance II" films by Martha Graham, Merce Cunningham, Alexander Hammid, and others. 2 p.m. Johnson Museum.

"White Heat" (1949), directed by Raoul Walsh, with James Cagney and Virginia Mayo. 8 p.m. *Uris Hall Auditorium.

Monday 9/15

"Sanjuro" (1962), directed by Akira Kurosawa, with Toshiro Mifune. 8 p.m. *Uris Hall Auditorium.

Tuesday 9/16

"War Games" (1983), directed by John Badham, with Matthew Broderick and Dabney Coleman. 8 p.m. *Uris Hall Auditorium. Co-sponsored with Centerpeace.

Wednesday 9/17

"Funny Face" (1957), directed by Stanley Donen, with Fred Astaire and Audrey Hepburn. 8 p.m. *Uris Hall Auditorium.

Friday 9/19

"Colonel Redl" (1985), directed by Istvan Szabo, with Klaus Maria Brandauer and Armin Muller-Stahl. 7:15 p.m. *Uris Hall Auditorium.

"Down and Out in Beverly Hills" (1986), directed by Paul Mazursky, with Nick Nolte, Richard Dreyfuss and Bette Midler. 7:30 p.m. *Statler.

"Home of the Brave" (1986), directed by Laurie Anderson, with Laurie Anderson. 10 p.m. *Statler.

"Smooth Talk" (1986), directed by Joyce Chopra, with Treat Williams and Laura Dern. 10:15 p.m. *Uris Hall Auditorium.

Saturday

"Smooth Talk" (1986). 7:30 p.m. *Uris Hall Auditorium.

"Home of the Brave." 7 p.m. *Statler.

"Down and Out in Beverly Hills." 9:15 p.m. *Statler.

"Colonel Redl." 9:30 p.m. *Statler.

Sunday 9/21

"Film Dance III," films by Maya Deren, Yvonne Rainer, Ed Emshwiller, and others. 2 p.m. Johnson Museum.

"Yankee Doodle Dandy" (1942), directed by Michael Curtiz, with James Cagney and Walter Huston. 8 p.m. *Uris Hall Auditorium.

SEPTEMBER						
S	M	T	W	T	F	S
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7	8	9	10	11	12	13
14	15	16	17	18	19	20
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28	29	30				

LECTURES

Thursday 9/11

"Politics, Institutional Assets, and Industrial Policy in Italy," Marizio Ferrera, University of Pavia, 12:15 p.m., 117 Stimson Hall. Sponsored by Western Societies Program.

Friday 9/12

"Distressed Damsels and Other Afflicted Females: Sexual Misapprehensions in 'Don Quixote,'" Ruth S. El Saffar, 4:30 p.m., Hollis Cornell Auditorium, Goldwin Smith Hall. Sponsored by University Lectures Committee.

Monday 9/15

"What are Judges For? The Judicial Role in Europe and America," Geoffrey Marshall, Fellow, The Queen's College, Oxford and A.D. White Professor-at-Large, 4 p.m., Myron Taylor Moot Court Room.

An update on AIDS, Jonathan Gold, New York Sloan Kettering Cancer Center, 7:30 p.m., Anabel Taylor Hall.

Tuesday 9/16

"Balancing on an Alp: A Rural Economy in Transition," Kenneth Beckman, Cornell '86, 4 p.m. L04 Uris Library. Sponsored by Western Societies Program.

Messenger Lecture Series: "Crisis Decision Making in the Nuclear Age." I. "Problems of International Crisis Management: An Overview," Irving L. Janis, Professor of Psychology, Emeritus, Yale University; author of "Groupthink." 4:30 p.m., Hollis Cornell Auditorium, Goldwin Smith Hall.

"Form and Function Relations in Mechanical Design," James Rinderle, Carnegie-Mellon University. 4:30 p.m., 282 Grumman.

Wednesday 9/17

Messenger Lecture Series: II: "Major Sources of Miscalculation and Faulty Planning," Irving L. Janis, Professor of Psychology, Emeritus, Yale University; author of "Groupthink." 4:30 p.m., Hollis Cornell Auditorium, Goldwin Smith Hall.

"When Medicine Became Hot News: Pasteur's Triumph over Rabies," Bert Hansen, assistant professor of history and coordinator of medical humanities, New York University. 4:30 p.m., 165 McGraw Hall.

"An Analysis of Phase Change Problems by the Boundary Integral Method," Nicholas Zabaras, theoretical and applied mechanics. 4:30 p.m., 205 Thurston Hall.

Thursday 9/18

"Movements and Structures: Alternatives to Social Change," Slawomir Magala, Erasmus University in Rotterdam, the Netherlands, 12:15 p.m., 117 Stimson. Sponsored by Western Societies Program.

"How to Avoid Speaking," Professor Jacques Derrida, Ecole des Hautes Etudes en Sciences Sociales, Paris, and A.D. White Professor-at-Large. 4 p.m., 120 Ives Hall.

"Torah as Medieval Jewish Philosophy," Professor Menachem Kellner, Haifa University. 4 p.m. 374 Rockefeller. Sponsored by Department of Near Eastern Studies.

MUSIC

Works by Marin Marais

Sept. 13, 8:15 p.m. Barnes Hall. Catherine Liddell, theorbo; John Hsu, viola da gamba.

Bound for Glory

Sept. 14. 8:30, 9:30, 10:30 p.m. Anabel Taylor Commons Coffeehouse. Broadcast live on FM93.



Fun in the Sun, the last hurrah of summer celebration.

Bach, Mozart, Beethoven

Sept. 15, 8:15 p.m. Barnes Hall. Carl Blake, fortepiano.

Bach, Schumann, Liszt

Sept. 19, 8:15 p.m. Barnes Hall. Jonathan Shames, piano.



John Hsu, viola da gamba, and Catherine Liddell, theorbo, will perform Sept. 13



...livened the Arts Quad last Saturday.

RELIGION

Sage Chapel

Jonathan P. Bishop, professor of English, will preach at Sage Chapel, Sept. 14 at 11 a.m. His sermon topic will be "Jesus."

Bishop received his B.A. and Ph.D. degrees in English from Harvard University. He became a member of the faculty in the English department in 1961 after teaching at Amherst College and UCLA. Books he has published include "Emerson on the Soul" and "Something Else."

Music for the service will be provided by the Sage Chapel Choir under the direction of Donald R. M. Paterson, university organist and Sage Chapel choirmaster.

Sept. 21, 11 a.m. Sage Chapel. Speaker: Julius Lester, University of Massachusetts, Amherst.

Catholic

Mass: Every Saturday, 5 p.m., Anabel Taylor Auditorium. Every Sunday, 10 a.m., Anabel Taylor Auditorium. Monday through Friday, 12:15 p.m. Anabel Taylor Chapel.

Sacrament of Reconciliation by appointment — 255-4228, G-22, Anabel Taylor Hall—announced on a week by week basis.

Christian Science

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

Episcopal (Anglican)

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

Great Commission Students

Worship service: Every Sunday, 10:30 a.m. 314 Noyes Center. Bible Discussion Group: Every Wednesday, 7:30 p.m. Noyes Center 310.

Jewish

Morning Minyan: 7:30 a.m. Young Israel House, 106 West Ave. Call 272-5810.

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

Conservative Shabbat Services: Every Friday, 6 p.m., Anabel Taylor Founders Room; Every Saturday, 9:45 a.m. Anabel Taylor Founders Room.

Orthodox: Every Friday evening. Young Israel, 106 West Ave. Call 272-5810; Every Saturday, 9:15 a.m. Anabel Taylor Edwards Room.

Korean Church

Every Sunday, 3 p.m. Anabel Taylor Chapel.

Muslim

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

Protestant

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

SEMINARS

Seminar notices, unlike other calendar notices, do NOT go to Central Reservations in Willard Straight, but should be delivered to the Chronicle office, 110 Day Hall, in writing by noon Thursday before publication. Each notice can be run only once, so on Thursday events please note whether you wish it published the day of the event or the week before.

Biochemistry, molecular, and cell biology

"Regulation of the heat shock response in E. coli," Carl Gross, Department of Bacteriology, University of Wisconsin, 4:30 p.m., Sept. 12, 204 Stocking Hall.

Chemistry

"World Wide Developments for Newer and Emerging Polymers," Richard M. Kosoff, president, R.M. Kosoff and Associates Inc. 4:40 p.m., Sept. 17, 119 Baker Laboratory.

"Isotope-induced quantum phase transitions in the liquid state," Frank Bates, AT&T Bell Labs, 4:40 p.m., Sept. 18, Room 119, Baker Laboratory.

Entomology

"Insect Plant Relations," Sir T. Richard Southwood, visiting scientist, Oxford University. 4 p.m., Sept. 15, Morison Room A106, Corson/Mudd Halls.

Geology

"The role and characteristics of strike-slip faults in terrane accretion as observed in the Philippines," Daniel E. Karig, professor and chairman of geological sciences. 4:30 p.m., Sept. 11, 1120 Snee Hall.

International Nutrition

"The eco-justice perspective on the global prospect for sufficient sustenance," William Gibson, coordinator eco-justice project, Center for Religions, Ethics and Social Policy. 12:15 p.m., Sept. 11, 100 Savage Hall.

Neurobiology and behavior

"Formation of retino-tectal connections in goldfish: Retinotopic sharpening is dependent on the pattern of activity," John T. Schmidt, Department of Biological Sciences, New York University, 12:30 p.m., Sept. 11, First floor atrium, Corson/Mudd Hall.

Peace Studies

"Command in crisis: The military dimension," Kurt Gottfried, 12:15 p.m., Sept. 12, 153 Uris Hall.

Pharmacology

"Patch clamp recordings from an epithelial membrane: the apical membrane of cultured renal cortical collecting tubules," Klaus Beyenbach, department of physiology. 4:30 p.m., Sept. 15, D101L Schurman Hall.

Plant Biology

"Hormonal aspects of development of single-gene tomato mutants," J.L. Caruso, biological science, University of Cincinnati. 11:15 a.m., Sept. 12, 404 Plant Science Building.

"Pytophthora root and crown rots of New York fruit crops," Wayne Wilcox, Geneva Experiment Station, 4:30 to 5:30 p.m., Sept. 16, 404 Plant Science Building.

Stability, Transition and Turbulence

"An examination of forcing in full turbulence simulations," V. Esaran, mechanical and aerospace engineering. 1 p.m., Sept. 16, 282 Grumman Hall.

Statistics

"Interim analyses for long-term experiments," Bruce Turnbull, operations research department, 3:15 p.m., Sept. 17, 250 Caldwell Hall.

Vegetable Crops

"Pepper bud abscission: Influence of plant growth regulators," Chris Wien, Department of Vegetable Crops. 4:30 p.m., Sept. 18, Room 404 Plant Science Building.

SPORTS

Saturday 9/13

Men's JV Soccer-Alumni Game, 2 p.m. Alumni Field.

Monday 9/15

Women's Cross Country-Cortland, 4:45 p.m., Moakley Course.

Men's Cross Country-Cortland, 5:15 p.m., Moakley Course.

Wednesday 9/17

Men's JV Soccer-Cortland, 7:30 p.m., Alumni Field.

Women's Varsity Field Hockey-Syracuse, Schoellkopf.

Friday 9/19

Women's Cross Country-Syracuse, Army & E. Stroudsburg, 4:45 p.m., Moakley Course.

Men's Cross Country-Syracuse, Army & E. Stroudsburg, 5:15 p.m., Moakley Course.

Ltwt. Football-Army, 7:30 p.m., Schoellkopf.

THEATRE

Cornell Savoyards

Savoyards needs set and costume designers and rehearsal pianist for fall production of "Yeomen of the Guard." Call 273-0570.

MISC

Intramural Sailing

Deadline for entries is 4 p.m. Sept. 15 in the Intramural Office, Helen Newman. Minimum of two to enter — skipper and crew-team consists of two people. Sponsored by the Cornell Varsity Sailing Team. Races will be sailed in the 420's. Race is Sept. 20 and 21. Both skipper and crew must attend a mandatory meeting to discuss time, location, and rules Sept. 19 at 4:50 p.m. in Helen Newman Lounge. Entry fee is \$10 per team, due with roster. Checks only, payable to "Cornell University."

Extramural Classes

Update job skills, work towards a degree, or explore a special interest through Extramural Study. Area residents may continue their education by applying for admission to virtually any course the university offers through Extramural Study. Late afternoon and evening courses are available. For information, call 255-4987 or write Cornell University Extramural Study, Box 94, B12 Ives Hall, Ithaca, NY 14853.

Ithaca Rape Crisis

Ithaca Rape Crisis is accepting applications into its volunteer counselor training program. Interested women should be willing to make at least a one-year commitment. No previous experience is necessary. Contact Ithaca Rape Crisis, P.O. Box 713, Ithaca, NY 14851, 273-5589.

Alternatives Library

Located in 122 Anabel Taylor Hall, this library contains more than 5,000 books, 180 periodicals and 350 tapes and slide shows on topics of individual, social and ecological transformations. Areas include eco-justice, holistic health, Native Americans, sustainable agriculture, appropriate technology, gay issues, political and economic analysis, and spirituality and mysticism.

Emotions Anonymous

Are you having problems with your emotions? Emotions Anonymous meets every Tuesday at 8 p.m. at 109 Oak Avenue, The Lutheran Church. Everyone is welcome.

Alcoholics Anonymous

Faced with a drinking problem? Perhaps Alcoholics Anonymous can help. Open AA meeting every Monday, Tuesday, and Thursday at noon in the Anabel Taylor Hall Forum and every Wednesday at noon in 314 Anabel Taylor Hall.

Personal Effectiveness Seminar

Develop self-awareness and self-confidence, take responsibility for your growth, build commitment, integrity, creativity, learn stress management for vitality, relaxation and peace of mind. Define and accomplish life goals. Meets from 7 to 10 p.m., Sept. 18 through Nov. 13. For information and registration, call Let Davidson at 272-4131.

Making Relationships Work

An eight-week workshop on guidelines and skills for generating loving, satisfying and productive relationships, for individuals and couples. Meets from 7 to 10:30 p.m., Sept. 16 through Nov. 4. For information and registration, call Let Davidson at 272-4131.

Observatory Open House

Fuertes Observatory, located on the hill behind Helen Newman Hall, will be open to the public every clear Friday night this fall from 9 p.m. until midnight. The planets Mars and Jupiter are spectacular this fall. Call the observatory at 255-3557 after 8 p.m. on clear Fridays for more information.

Job Opportunities

NOTICE TO ALL APPLICANTS:

Job Opportunities will publish vacancy announcements on a limited basis until further notice. Staffing Services will continue to accept employment applications and employee transfer requests. However, these items will be processed only after individuals with official University layoff status are given preferential consideration.

Administrative and Professional

SYSTEMS ANALYST III (PT362) Integrated Pest Management

Direct development and implementation of applications software for on-line information system for Cooperative Extension, direct design and maintenance of computer products that support this system.

Requirements: MS in mathematics, physics, computer science, or related discipline, experience in development of an information system. Location is on Ithaca Campus. Design and programming of microcomputer software experience helpful. Submit cover letter and resume to Judi Pulkinen.

UNIX SYSTEMS PROGRAMMER II (PT363) Computer Science

Provide programming support in C for Computer Science Department's UNIX research computing facility. Includes software consulting and programming assistance and day-to-day software maintenance for department facility.

Requirements: B.S. degree in electrical engineering or computer science, or comparable professional UNIX systems programming experience. UNIX systems software development. Familiarity with C and other major programming languages such as Pascal, Fortran, the C-shell, LISP background in UNIX kernel programming, TCP/IP and XNS networking preferred. Send cover letter and resume by September 19, 1986 to Judi Pulkinen.

DEVELOPMENT ASSISTANT (PA364) University Development

Provide general support to Campaign for Physical Education and Athletics in area of volunteer management, communications, phonathons, direct mail. Plan and coordinate Ithaca based fundraising activities for Campaign. Perform other duties as assigned.

Requirements: Bachelor's degree or equivalent. Excellent written and oral communication skills. Strong interpersonal skills. Management and organizational ability desired. Submit cover letter and resume by September 19, 1986 to Cynthia Smithbower.

RESEARCH SUPPORT SPECIALIST II (PT351) Agricultural Engineering

Design computer programs to collect data from monthly reports and retrieve it in cross tabulation form. Maintain records; compose contractual and statistical reports and papers.

Requirements: Bachelor's degree in math or computer science. Minimum 2 years experience in position requiring computer operation or statistical compilation. Send cover letter and resume by September 19 to Judi Pulkinen.

STAFF WRITER I (PC351) Agricultural Engineering

Develop publicity and mass media support for Small Business Energy Efficiency Program. Write reports, news stories and newsletters for program.

Requirements: Bachelor's degree in journalism, English literature, or Communication Arts. Two years experience in writing, news reporting or mass media. Send cover letter, resume, 2 writing samples or call in confidence to Esther L. Smith (607-255-6874).

ADMINISTRATIVE MANAGER I (PC354) Diagnostic Laboratory

Financial and Administrative responsibilities including budgeting, personnel, accounting, purchasing and accounts receivable; information systems development and management for financial reporting, operations automation and telecommunications; Physical Plant maintenance and planning.

Requirements: Bachelor's degree in finance or accounting. Experience in supervision. Coursework or experience in computer applications and systems development. Send cover letter, resume or call in confidence to Esther L. Smith.

RESEARCH SUPPORT SPECIALIST I (PT352) Biochemistry, Molecular & Cell Biology

Design, plan and conduct research on structure and assembly of avian retroviruses. Assist in training and supervision of new lab personnel in routine procedures, lab safety, etc. Maintain lab supplies, equipment and radioisotope records.

Requirements: MS plus two years experience or Bachelor's plus four years experience. Experience in cell culture and biochemistry of nucleic acids and proteins needed. Send cover letter and resume to Judi Pulkinen.

SYSTEMS PROGRAMMER II (PT356) Theory Center

Provide 4.2-3BSD UNIX systems support for various Theory Center computers.

Requirements: B.S. in Computer Science or equivalent. 2-3 years experience with 4.2/3BSD UNIX. Experience with multiple machine architectures. Send cover letter and resume to Judi Pulkinen.

TECHNICAL CONSULTANT II (PT359) Theory Center

Provide consulting services to researchers and users of Cornell Theory Center, including Advanced Computing Facility and Theorynet.

Requirements: B.S. or equivalent, with coursework in computing and related fields. 2-3 years of computer system and program-

ming experience. Experience with UNIX systems and understanding of networking techniques and protocols helpful. Strong interpersonal, communication and organizational skills necessary. Send cover letter and resume to Judi Pulkinen.

SYSTEMS PROGRAMMER III (PT355) Theory Center

Provide 4.2-3BSD UNIX systems support for various Theory Center computers. Provide technical advice and guidance to users and staff.

Requirements: B.S. in Computer Science. 3-5 years experience with 4.2/3BSD UNIX; experience with various machine architectures; demonstrated expertise in designing, developing, maintaining system software; strong interpersonal and communication skills. Hardware background desirable. Send cover letter and resume to Judi Pulkinen.

SENIOR SYSTEMS PROGRAMMER (PT358) Theory Center

Design, implement, test, and document a comprehensive operating system for a parallel supercomputer. Function as an authority on state of the art parallel architectures.

Requirements: B.S. in computer science plus 3-5 years experience or equivalent in education and experience. Sound knowledge of operating systems, systems design, and software experience. Experience with 4.2/3BSD UNIX. Send cover letter and resume to Judi Pulkinen.

SENIOR TECHNICAL CONSULTANT (PT3510) Theory Center

Coordinate education and training activities to aid researchers using Cornell Theory Center, including the Advanced Computing Facility and Theorynet. Plan workshops; prepare documentation and materials for users.

Requirements: M.S. or equivalent combination of education and experience. Excellent communication, interpersonal, and organizational skills. Experience with UNIX systems and massively parallel systems, such as the Intel IPSC. Experience in setting up a User Services organization helpful. Ability to work closely with scientific researchers and talk to users at their level of comprehension. Excellent writing skills. Send cover letter and resume to Judi Pulkinen.

SENIOR SYSTEMS PROGRAMMER (PT357) Theory Center

Design, implement, test, and document a comprehensive operating system for a parallel supercomputer. Function as an authority on state of the art parallel architectures.

Requirements: B.S. in computer science plus 3-5 years experience; or equivalent in education and experience. Sound knowledge of operating systems, systems design, and software engineering. Experience working with 4.2/3BSD UNIX. Send cover letter and resume to Judi Pulkinen.

ASSOCIATE DEAN (PC344) Graduate School

Responsible for supervision of daily function and operation of Graduate School Office. Counseling and guidance of graduate students. Assist Dean in implementation and on-going review of Graduate School legislation and policy coordination. Handle special projects arising both internally and externally.

Requirements: PhD plus administrative experience at university level preferred. Faculty supervision of graduate students desirable. Demonstrated capability for efficient, accurate, and analytical recording and interpretation of data and policies. Familiarity with administrative computing. Excellent interpersonal skills. Send cover letter and resume or call in confidence to Esther L. Smith (607-255-6874).

STAFF WRITER I (PC343) Media Services

Research, write, edit and produce radio news actuality reports for Consumer Information Network; develop, produce and direct other projects within TV-Radio-Film Center as may be required and function as a creative member of an interrelated television and radio production unit.

Requirements: Bachelor's or equivalent degree in Radio-TV, Communications field, or consumer fields preferred. Minimum 2-3 years experience in all aspects of broadcast news and audio production; or demonstrable skills of a high nature. Functional knowledge of operation of professional audio equipment. Excellent interpersonal skills working with faculty, staff, and clients. Send cover letter, resume, writing sample and audio tape to Esther L. Smith.

STAFF NURSE (PA335)-(Repost) University Health Services

Screen, assess, and treat or refer outpatients, utilizing clinical nursing skills. Assist nursing supervisor with management of clinic flow. 9 month position.

Requirements: 3 year nursing program degree required. New York State Nursing license. 1 or more years recent experience in outpatient nursing. Send cover letter and resume to Cynthia Smithbower by September 25.

TECHNICAL CONSULTANT III (PT072) Theory Center-(Repost)

Provide full range of consulting services to researchers using resources of the Cornell Theory Center, including the Production Supercomputer Facility, Theorynet, and possibly the Experimental Facility.

Requirements: Bachelor's degree with graduate study in either computer science or one of the physical-biological-engineering sciences. 3 to 5 years related experience including some experience with VM-CMS and array processors desirable. Experience with mainframe computers. Must be fluent in at least two programming languages; demonstrated ability to work with complicated programs necessary; strong written and interpersonal communication skills. Send cover letter and resume to Judi Pulkinen.

SYSTEMS PROGRAMMER III (PA296) Theory Center-(Repost)

Under general supervision be responsible

for system analysis, design, programming, and documentation for a large variety of projects. Major source of software support and technical leadership for both users and other Theory Center Staff.

Requirements: Master's degree or equivalent combination of education and experience. Strong technical and communication skills. Wide range of programming experience utilizing many languages. Extensive knowledge of internal operations of operating systems, especially MVS. IBM mainframe and Fortran experience a plus. Send cover letter and resume to Judi Pulkinen.

Clerical

CURRENT EMPLOYEES should submit an employee transfer application, resume and cover letter. Also, if you are interested in a career development interview, please contact Esther Smith at 5-6874 to schedule an appointment.

OUTSIDE APPLICANTS should submit an employment application and resume. Applications and resumes typically remain active for three months; typing test scores remain on file for one year. The clerical section uses an automatic referral system whereby outside applicants are referred to positions for which they are considered qualified and competitive. Unless otherwise advertised, requests to be referred to a specific position will not be accepted. Applicants who are referred to a department for review will be contacted by the department if an interview is necessary.

NOTE: OPEN INTERVIEWING FOR OUTSIDE APPLICANTS interested in clerical positions will be conducted every Wednesday afternoon from 1:00 - 6:00p.m. in our East Hill Plaza Employment Office. No appointment is necessary, however a short wait may be required. Call Esther Smith or Lauren Worsell if you have any questions.

ADMINISTRATIVE AIDE, GR21 (C361) Horticultural Sciences-Geneva

Provide administrative and secretarial support for Department Chair and a large research-extension group. Coordinate academic personnel matters; compile information on several reports; coordinate manuscript and publication lists; supervise word processing secretaries.

Requirements: Associate's degree in executive secretarial science or business administration or equivalent work experience. Heavy typing. Minimum 3-5 years administrative and secretarial experience. Supervisory, personnel management and word processing skills. Ability to work under pressure and maintain confidences. Excellent organizational, communication (written and oral) skills. Minimum Biweekly Starting Salary: \$512.32

ADMINISTRATIVE AIDE, GR20 (C3614) University Development

Provide secretarial and administrative assistance to Associate Director in the Office of Major Gifts. Coordinate flow and oversee completion of work within office; assist in making arrangements for visitors to the campus; conduct research for special projects; type, edit and proofread correspondence, reports, etc.; make appointments.

Requirements: Associate's degree or equivalent. Medium typing. Significant experience working in a busy office with considerable public contact. Ability to work with a wide range of individuals. Excellent communication (written and oral) skills. Discretion in dealing with confidential matters. Minimum Biweekly Starting Salary: \$431.43

ADMINISTRATIVE AIDE, GR19 (C3613) University Development

Provide administrative and secretarial support to Campaign Manager for the Johnson Graduate School of Management. Prepare and coordinate mailings; handle gift acknowledgment requests; assist in coordination and preparation of phonathons; make travel arrangements; perform basic research.

Requirements: Associate's degree or equivalent. Medium typing. Excellent organizational, typing and communication (written and oral) skills. Minimum Biweekly Starting Salary: \$457.09

SECRETARY, GR19 (C3610) Agricultural Engineering

Provide secretarial support to several faculty and support staff. Answer telephone and refer questions to appropriate extension personnel; prepare correspondence, classwork, reports; help direct work of an Office Assistant. Other duties as assigned.

Requirements: A.A.S. degree or equivalent. Minimum 2 to 4 years experience. Heavy typing. Word processing, data processing and spreadsheet familiarity helpful. Knowledge of Cooperative Extension desirable. Transcription by machine. Excellent telephone skills. Minimum Biweekly Starting Salary: 457.09

INFORMATION ASSISTANT, GR18 (C364) Reference Department, Uris Library

Reporting to Head of Reference, responsible for providing information service at reference desk and for providing a wide range of clerical support duties; also coordinates major displays in Uris Library and prepares graphic materials; assists with annual reference inventory and occasionally serves as back-up for other departments.

Requirements: Some college background. Light typing. Some experience with graphics or design. Attention to detail. Ability to work well with public. Some library experience and wordprocessing helpful. Excellent communication skills.

Minimum Biweekly Starting Salary: \$431.43

SEARCHER, GR18 (C363) Acquisitions Department-Olin Library

Search card catalogs, national and trade bibliographies, RLIN automated system and other files for bibliographic information pertaining to books which library is ordering or has received. Input records for new books and orders in RLIN database. Regular, full-time includes some evening hours.

Requirements: High school education or equivalent. Light typing. Minimum three years of progressively more responsible technical services experience. Additional education may be substituted for experience. Good knowledge of at least one (preferably two) Western European language(s).

Minimum Biweekly Starting Salary: \$431.43

WORD PROCESSING OPERATOR, GR18 (C3615) University Development

Produce mass mailings, proposals, newsletters, charts and special projects in support of University fund raising and public affairs efforts.

Requirements: High school diploma or equivalent. Secretarial school desirable. Heavy typing. Experience working with Microm .3004 required. Accuracy, good command of grammar, punctuation, spelling and proofreading are important. Knowledge of letter and proposal formats helpful. Business experience helpful.

Minimum Biweekly Starting Salary: \$431.43

ACCOUNTS ASSISTANT, GR18 (C368) Cooperative Extension Administration

Perform general duties related to maintenance of accounts records. Prepare and maintain monthly reports; prepare and audit vouchers; prepare journal entries; check invoices; review expenditures; examine and process bills; prepare and process transactions for supplies, equipment, travel, etc.

Requirements: High school diploma or equivalent. Minimum 1 to 2 years accounting experience. Light typing. Knowledge of Cornell accounting system preferred. Experience in voucher preparation and federal state regulations governing accountability and expenditures preferred.

Minimum Biweekly Starting Salary: \$431.43

SECRETARY, GR18 (C369) Computer Science

Provide clerical and organizational support for two senior faculty members and their respective research groups. Other faculty as assigned.

Requirements: High school diploma or equivalent. University or college courses or work experience in an academic environment. Medium typing. Word processing, typing technical material. Good organizational skills.

Minimum Biweekly Starting Salary: \$431.43

RESEARCH AIDE, GR18 (C366) Ornithology

Maintain records for North American Nest Record Program by editing data, organizing data records and corresponding with contributors, handle all written and oral correspondence for this project as well as contribute to Cooperative Research Newsletter and other projects within program.

Requirements: Associate of Science degree or equivalent. Medium typing.

Excellent organizational and communication (written and oral) skills. Ability to work well independently. Computer skills required (ability to use P.C.; work with mainframe helpful). Knowledge of biology and birds preferred. Send cover letter and resume to Esther L. Smith.

Minimum Biweekly Starting Salary: 431.43

OFFICE ASSISTANT, GR16 (C367) Physical Education & Athletics

Assist in daily operation of Indoor Tennis Courts. Work with court reservation system, daily sales reports and deposits. Oversee part-time employees, customer relations. Regular full-time, 8 month position.

Requirements: High school diploma or equivalent. Light typing. Minimum 1-2 years successful experience in cash handling, record keeping and supervision. Must have proven ability to work well with public.

Minimum Biweekly Starting Salary: \$390.08

SENIOR MANUSCRIPT ARRANGER, GR18 (C358) NYSSILR, Catherwood Library-Repost

Arrange and describe manuscript and other non-book materials according to instructions provided by processing supervisor; assist in answering reference questions on collections processed; mounting exhibits, minor mending, counting documents and labeling boxes.

Requirements: College course work in Modern American History, Industrial Relations or Labor History preferred or must be willing to take related courses. Light typing. Excellent writing skills required. Familiarity with word processing helpful.

Minimum Biweekly Starting Salary: \$431.43

SPECIAL COLLECTIONS ASSISTANT, GR18 (C3412) N.Y. Historical Resources Center-Olin Library - Repost

Edit and index data gathering forms for state-wide historical documents inventory. Enter data into RLIN database, proofread printouts; update database and prepare material for publication. Regular, full-time until June, 1987 with possible extension.

Requirements: B.A. in humanities, social sciences or related field preferred. Light typing. Writing skills and good handwriting. Experience in editing, indexing, proofreading and data entry desirable. Accuracy and ability to do detailed work with minimum supervision required. Some knowledge of New York State history desirable. Experience with RLIN desirable.

Minimum Biweekly Starting Salary: \$431.43

SECRETARY, GR18 (C289) History (Repost)

September 11, 1986
Number 36
University Personnel Services
Cornell University
160 Day Hall
Ithaca, New York 14853-2801

Type and edit manuscripts, primarily, as well as routine departmental correspondence and course work. Provide general secretarial support for department and backup support for routine office functioning (reception; mail). Other duties as assigned.

Requirements: High school diploma or equivalent. Business or secretarial school desirable; minimum 1-3 years experience. Excellent typing skills; knowledge of IBM Displaywriter or AT&T PC (using Wordperfect) necessary.

Minimum Biweekly Starting Salary: \$431.43

General Service

Outside applicants for general service positions should apply in person at the East Hill Plaza Employment Office, Monday - Friday, 9am - 12 noon. Phone requests and cover letters are not accepted unless specified. Regular Cornell employees should submit an employee transfer application.

UNIVERSITY SERVICE OFFICER, (G363) Public Safety

Prevention and detection of criminal behavior; external and internal patrol of University property within his or her area for fire, safety and crime hazards; enforcement of parking regulations occurring on the property of Cornell University.

Requirements: High school diploma or equivalent. Further formal education, training or experience in the law enforcement field preferred. Satisfactory completion of basic University Service Officer training. U.S. citizenship; eyesight 20-40 corrected to 20-20; no record of convictions other than minor traffic infractions. NYS driver's license; ability to obtain NYS pistol permit within 90 days of employment. Must pass physical examination.

Minimum hourly rate: \$6.25

FOOD SERVICE WORKER, SO14 (G362) Dining Services - Endowed

Set up, display and serve food or beverage in service or dining area. Other food preparation or service duties as assigned. Monday through Friday, shift subject to change.

Requirements: Basic reading and computational skills required. Good customer relations skills. Knowledge of food handling preferred. Able to lift 40 pounds.

Minimum hourly rate: \$4.66

SENIOR SALES ASSISTANT, GR21 (G326) Unions & Activities-Repost

Select and buy all retail products, design promotional advertising and marketing campaigns, act as liaison between Associate Director and vendors, maintain inventory monitor and control, research and prepare quarterly reports, research proposals, retail modification, act as cashier, coordinate with graphics and programming staff, other duties as assigned by Associate Director. 10 month position.

Requirements: Bachelor's degree or 3 years of experience in retail management or marketing and promotions or equivalent combination. Excellent organizational and interpersonal skills.

Minimum Biweekly Starting Salary: \$512.32

Technical

Outside applicants for technical positions should submit an employment application, resume, transcripts and a list of laboratory techniques and equipment, or computer languages and hardware with which you are familiar. This information will be kept active for six months. For each position that you are qualified and wish to be a candidate for, submit a cover letter, including position title, department and job number, to Judi Pulkinen. Current Cornell employees should submit an employee transfer application, resume and cover letter. Outside applicants with training or experience in the following areas are encouraged to apply: biochemistry, chemistry, microbiology, electronics, physics and licensed animal health technicians.

TECHNICIAN, GR21 (T365) Plant Pathology

Design and carry out experiments to test potential use of plant viral satellite clones as vectors for cloning in plants. Techniques include DNA constructions, molecular cloning, hybridization analyses, and assays on whole plants.

Requirements: Bachelor's degree or equivalent in Biochemistry, Genetics or related field. One year of related laboratory experience involving nucleic acid molecular biology. Apply to Judi Pulkinen.

Minimum Biweekly Starting Salary: \$512.32

TECHNICIAN, GR21 (T363) Diagnostic Laboratory

Conduct automated kinetics-ELISA testing on diagnostic serum samples. Responsible for operating and trouble shooting of automated instrumentation. Operation of computers required.

Requirements: B.S. in Microbiology-Immunology or equivalent. Computer programming experience preferred. Previous use of aseptic techniques, general lab equipment and protocols; training and previous experience with computers are highly desirable. Knowledge of statistics is desirable. Apply to Judi Pulkinen.

Tax revision

Continued from page 1

The Cornell trustees during Commencement that, in some ways, the tax-revision proposal represents the single most fundamental change in the federal government's policy toward higher education in a century, distinguishing for the first time at the federal level between public and private institutions. Moynihan and U.S. Rep. Charles Rangel "worked hard on behalf of the issues of greatest concern to higher education, but it appears that House-Senate Conference Committee Chairman Dan Rostenkowski wouldn't budge," Burness told the trustees.

Here, in more detail, is what the tax-revision changes will mean to the Cornell community:

Effect on retirements small

Retirement arrangements for most Cornell faculty and staff probably will be only modestly affected by the new law, except for the loss of ability to deduct contributions to Individual Retirement Accounts, according to J. Robert Barlow, director of federal relations.

TIAA-CREF, which handles the retirement plans for most Cornell personnel, may have to increase premiums because its insurance programs will be subject to tax, but pension benefits for retired individuals will not be affected.

Other changes ease restrictions on deductions for dependent care and the educational financial assistance from Cornell not subject to taxation. Further, colleges would continue to be allowed to provide tax-free tuition benefits to employees' children who are enrolled in undergraduate programs.

Student loans affected

Students and their families who borrow money for their education no longer will be able to deduct the interest on such loans — a provision Barlow said "is certain to increase financial hardship in many cases."

He also predicted that state programs under which supplemental student loans are financed through tax-exempt bonds probably

will be phased out or sharply curtailed because of stringent new limits on such bonds. New York State only recently enacted a supplemental loan program.

Although tuition forgiven by the university for teaching assistants and research assistants will continue to be untaxed at least through 1987, the portion of scholarship and fellowship stipends used for living costs rather than for tuition or essential equipment will be taxed.

Tax liability to grow

"This provision is expected to increase the income tax liability of more than 2,500 Cornell graduate students in Ithaca and at the Graduate School of Medical Sciences in New York City, in an annual total well over \$1 million," Barlow said.

He estimated that single students with no income other than a scholarship or fellowship probably will be taxed in the range of \$300 to \$500 or so a year, depending on the size of the stipend (typically \$7,000 to \$8,500). Most affected will be students who work to supplement their stipends, or who have working spouses (roughly one-quarter of Cornell graduate students are married).

"There is an irony here: One of the effects of the tax-revision plan on students is to place a heavier burden on those who need to work than on those whose families are wealthy," Barlow pointed out.

Donors to be affected

Most of the largest gifts to Cornell come in the form of property — such as stocks, bonds, real estate, art works or collections of valuable items — which have increased, or "appreciated," in value since the donor purchased them. In the past, the donor has been able to deduct from income taxes the full current value of this appreciated property, recognizing that the donor alternatively could sell the property at a financial advantage.

The proposed new law, however, might tax the increased value of donated property.

"This is expected to discourage or reduce many major gifts to the university, and thus probably is the provision in the tax bill most damaging to higher education," Barlow said.

He said that gifts to Cornell last year from individuals totaled \$69 million. About \$14 million, or 20 percent, of this was in securities, between \$2 million and \$3 million was in art, and the same amount was in real estate.

Two other changes expected to reduce the tax incentive for charitable giving are elimination of a provision permitting taxpayers who do not itemize their deductions to deduct their charitable gifts and the reduction in the maximum tax rate from 50 to 28 percent.

Tax-exempt bonds curbed

Much of the construction and renovation on the Cornell campus has been financed by bonds issued through the New York State Dormitory Authority. These bonds are tax exempt, that is, the interest on them is not taxed by the federal government. Barlow said this has allowed Cornell and other colleges and universities to pay interest that is two or three percentage points lower than they would have to pay on financing through the conventional bond market.

In 1985, Cornell issued \$100 million in tax-exempt bonds to finance crucial current and near-term facilities, bringing its total outstanding debt to approximately \$250 million. Given the two- to three-percentage-point spread referred to earlier, the savings from the tax-exempt feature amount to something like \$5 million to \$7.5 million per year.

The new tax bill would permit each college and university to have only \$150 million in tax-exempt bonds outstanding.

10 barren years foreseen

Because Cornell's \$250 million puts it far over that limit, the university would be barred from further tax-exempt financing for about 10 years, according to Jay Morley, the university's vice president and treasurer.



However, campus facilities needs over the next 10 years have been estimated at \$400 million, Barlow said.

He added that this cap on tax-exempt financing ironically "affects universities that are on the cutting edge of research and that therefore have the greatest need to modernize their physical plants and to meet the new demands of a high-technology society. If the cap remains in force for more than the next two or three years, it will restrict Cornell's ability to assist in improving the nation's economic growth and international competitiveness."

— Barry Gross

Faculty meeting set

President Frank Rhodes will deliver his annual State of the University address at a combined meeting of the University Faculty and the Faculty Council of Representatives Sept. 24.

The meeting, set for 4:30 p.m. in 110 Ives Hall, replaces meetings of the FCR and the University Faculty, originally scheduled for Sept. 10 and 17. These meetings have been cancelled.

Also on the agenda for the Sept. 24 meeting are an update on construction and parking, possible changes in the Library Board legislation and the honoring of Distinguished Teaching Award recipients.

Job Opportunities

Continued

Minimum Biweekly Starting Salary: \$512.32

RESEARCH AIDE, GR20 (T365) Natural Resources

Assist in compilation, statistical analysis, and writing reports pertaining to a large data base generated on Canada geese. Assist in field and technical aspects of other waterfowl related projects. Full-time, temporary until September 30, 1987.

Requirements: Bachelor's in Wildlife Science or related field; graduate study preferred. Extensive background in waterfowl related projects, statistical expertise, and demonstrated writing ability. Apply by September 26, 1986 to Judi Pulkinen.

Minimum Biweekly Starting Salary: \$482.33

TECHNICIAN, GR20 (T364) Entomology - Geneva

Use recombinant DNA techniques including isolation of phages and plasmids, screen and isolate recombinant clones, DNA and RNA purifications, radiochemical labeling of nucleic acid probes, prepare DNA and genomic libraries, electrophoresis and sequencing of nucleic acids; collection staging and microinjection of insect eggs; prepare lab reagents. 1 year; renewable contingent on grant renewal.

Requirements: Bachelor's degree with at least one year experience in molecular biology lab; experience with radioisotopes and sterile techniques. Ability to learn quickly and work with a minimum of supervision. Mature person with good organizational skills, attention to detail, and a commitment to excellence.

Minimum Biweekly Starting Salary: \$482.33

TECHNICIAN, GR18 (T361) Animal Science

Assist in studies regarding regulation of nutrient use for lactation and growth in farm animals. Collect data on animal performance, collect biological samples and perform chemical analyses. 1 year appointment extension dependent on grant renewal.

Requirements: B.S. degree in a related area. Experience in routine laboratory analyses of biological samples for hormones, metabolites, skills in working with farm animals, and attention to detail. Interpersonal skills essential. Apply by September 17 to Judi Pulkinen.

Minimum Biweekly Starting Salary: \$457.09

TECHNICIAN, GR21 (T355) Division of Nutritional Sciences

Work with recombinant DNA; purify and sequence nucleic acids. Construction and screening of libraries.

Requirements: B.S. in biochemistry or related field. Experience with nucleic acid techniques; should be able to follow biochemical protocols and be able to work with limited supervision. Apply by September 17.

Minimum Biweekly Starting Salary: \$512.32

TECHNICIAN, GR20 (T352) Biochemistry, Molecular & Cell Biology

Carry out experiments on structure, function and genetics of ribosomal DNA in Phy-

sarum. Culture Physarum, Nucleic acid molecular biology-including radioisotope labeling, electrophoresis, hybridizations, sequencing, cloning, etc. Some lab maintenance tasks.

Requirements: Bachelor's degree with some research experience; graduate coursework preferred. Knowledge of culturing techniques. Apply by September 19.

Minimum Biweekly Starting Salary: \$482.33

TECHNICIAN, GR19 (T351) Food Science

Provide technical assistance to dairy industry; monitor quality of fluid milk and dairy products from milks of different sources working in a department's pilot plant for quality evaluations and shelf-life studies.

Requirements: Bachelor's degree or combination of education and experience with dairy products, laboratory analyses, or plant production. Experience with basic lab equipment: pH meters, spectrophotometers, etc. Familiarity with dairy chemistry and dairy microbiology principles. Experience with computers helpful. Apply by September 19.

TECHNICIAN, GR19 (T353) Diagnostic Laboratory

Perform radioimmunoassays of hormones and other antigens on animal and some human blood samples. Prepare samples (centrifuging, extracting with volatile solvents, dispensing into assay tubes), handle low level radioactive materials, protocol assays and calculate their results, refer veterinarians and other clients with inquiries to proper sources of information, prepare buffers and hormone solutions, maintain paper and computer files, wash dishes, and clean laboratory.

Requirements: Bachelor's degree in biological or chemical science. Basic skills in and knowledge of chemical laboratory procedures, mathematics, communications, and keyboarding essential. Training in immunology, endocrinology, and biochemistry useful. Must be able to work accurately under pressure of frequent deadlines. Apply by September 19.

Minimum Biweekly Starting Salary: \$457.09

TECHNICIAN, GR21 (T322) Chemistry Assist in carrying out research projects in biochemistry such as enzyme preparations, assays, characterization; responsible for laboratory administration including ordering chemicals, keeping inventory and radiation safety records, and supervising student dishwashers.

Requirements: Bachelor's degree in Chemistry or Biochemistry. Experience working with proteins and enzymes and with biochemical preparations. Good organizational skills. Apply by September 19.

Minimum Biweekly Starting Salary: \$512.32

TECHNICIAN, GR21 (T263) Diagnostic Laboratory-Report

Assist in development of serological assays on automated equipment; conduct experiments; reduce and summarize data using computerized routines. One year term.

Requirements: Bachelor's degree or equivalent in microbiology, serology or related field. Preferably two years experience in sero-

logy or immunology laboratory and a knowledge of computers. Familiarity with general lab equipment: centrifuges, balances, pipettes. Apply by September 18.

Minimum Biweekly Starting Salary: \$512.32

TECHNICIAN, GR20 (T124) Neurobiology and Behavior Repost

Assist in design and conduct of behavioral and neurophysiological experiments; do routine histological preparations of nervous tissue; supervise care of a collection of tropical fish; assist in data analysis; assist in administration of small lab.

Requirements: Bachelor's degree with research laboratory experience. Familiarity with electrophysiological, neurobiological and behavioral techniques and equipment including oscilloscopes, stimulators, sound spectrograph, digital computers; some histology experience. Apply by September 19.

Minimum Biweekly Starting Salary: \$482.33

TECHNICIAN, GR21 (T322) Chemistry

Assist in carrying out research projects in biochemistry such as enzyme preparations, assays, characterization; responsible for laboratory administration including ordering chemicals, keeping inventory and radiation safety records, and supervising student dishwashers.

Requirements: Bachelor's degree in Chemistry and Biochemistry. Experience working with proteins and enzymes and with biochemical preparations. Good organizational skills.

Minimum Biweekly Starting Salary: \$512.32

Part-Time

SPACE ADMINISTRATIVE AIDE, GR19 (C3611) Career Center

Provide administrative and secretarial support to Associate Director of Health Careers. Arrange meetings; organize special programs; and interact with faculty. Regular part-time 25 hours per week, Monday through Friday.

Requirements: A.A.S. degree or equivalent. Heavy typing. Attention to detail. Dictaphone desirable. Excellent interpersonal and organizational skills. Accuracy and confidentiality are essential. Familiarity with IBM-PC or MacPlus desirable.

Minimum full-time equivalent: \$457.09

COOK, SO18 (G361) Residence Life - Endowed

Clean, prepare and cook for University-owned fraternity. Clean all food preparation areas, cooking areas and assist in keeping storerooms and refrigerators sanitary. Aid student steward in menu-planning and food purchases as needed. Varying work hours in response to special menu plan functions.

Requirements: High school diploma or equivalent. Able to follow recipes accurately, operate standard food preparation and cook-

ing equipment. Experience in large quantity preparation essential. 1-2 years institutional cooking experience. Good organizational skills. Able to work with little supervision and with student volunteers; able to supervise student helpers. Apply in person, Monday through Friday, 9 a.m. to 12 noon at the East Hill Plaza employment office.

Minimum hourly rate: \$5.71

SECRETARY, GR18 (C3612) English

Departmental secretary providing clerical support for Administrative Manager, Chair and faculty. Type; answer telephone; message taking; form processing; copying. Regular part-time, Monday through Friday, 9:00 to 1:00.

Requirements: High school diploma or equivalent. Secretarial school desirable. Heavy typing. Minimum 1 to 3 years secretarial experience. Familiarity with word processors.

Minimum full-time equivalent: \$431.43

SECRETARY, GR17 (C362) Unions and Activities

Type; copy; transcribe dictation; provide secretarial support for special projects; assist with ordering supplies; routine filing. Regular, part-time, Monday through Friday 8:30-3:00

Requirements: High school diploma or equivalent. Heavy typing. Ability to work comfortably in a busy office and work well with students, minority groups and other diverse groups. Good communication skills. Experience with dictaphone and word processor.

Minimum full-time equivalent: \$409.53

Temporary

TEMPORARY OPPORTUNITIES: Individuals qualified for temporary work and interested in clerical—secretarial: if you have experience or skills, and are interested in learning more about these opportunities, please call Laurie Worsell at 255-5226.

TECHNICIAN, GR18 (T362) Ornithology Edit and incorporate field tape recordings of animal sounds into collection of Library of Natural Sounds. Prepare and enter into a computerized information storage and retrieval system, catalog data for recordings in Library.

Requirements: Bachelor's degree in biology or related field or equivalent preferred. Interest or course work in ornithology helpful. Good organizational skills essential. Ability to learn quickly and work independently. Previous experience with the following most helpful: audio theory, ornithology or electronics. Apply to Judi Pulkinen by October 1.

Academic

RESEARCH ASSOCIATE, Systematic Ichthyology (A362)

Send cover letter and resume to Alberta K. Jackson, Ecology and Systematics, Corson Hall, Cornell University, Ithaca, NY 14853.

SOUTHEAST ASIA LIBRARIAN (A361) University Libraries

Assist Curator of Echols Collection in overall operation and development of this premier Southeast Asian collection. Supervision of pre-cataloging work of vernacular language specialists, liaison with Southeast Asia sections of Library's Central Technical Service departments, assist with daily public service function of the Collection.

Requirements: MLS from accredited library school and thorough understanding of both public and technical services operations required. Familiarity with Southeast Asia and at least one area language is desired. Send cover letter, resume, and a list of three references to Carolyn A. Pythila, Personnel Director, 235 Olin Library, Cornell University, Ithaca, NY 14853 by November 15, 1986.

ASSISTANT OR ASSOCIATE PROFESSOR (A351)

Specialty: Role of government in agrarian change, a Ph.D. in Rural Sociology, Sociology or a related discipline with a background in political or organizational sociology is required. Field experience with rural and agricultural sector in a Third World Country and ability to link research findings to applied development efforts is necessary. Send vita, transcript and three letters of reference to Eugene C. Erickson, Chairman Department of Rural Sociology, College of Agriculture and Life Sciences, Cornell University, Ithaca, NY 14853.

Jobs listed here are prepared by Staffing Services. The list of current vacancies is part of the university's commitment to promotion from within, affirmative action, and equal opportunity employment.

Employees seeking transfer to other jobs should contact Staffing Services for appropriate procedures and forms.

Employment applications are available at Cornell's employment office, East Hill Plaza (Judd Falls and Ellis Hollow roads), 9 a.m. to noon Monday through Friday. Mail completed forms to Cornell Staffing Services, 160 Day Hall, Ithaca, N.Y., 14853-2801.

This listing also is on CUINFO, the university's computerized info for the Information and Referral Center in Day Hall and other campus locations.

SPORTS

Big things are expected from a number of Big Red squads this fall as the curtain goes up on the 1986 season. The field hockey and cross country teams are first, jumping into action Sept. 15.

Here's a thumbnail sketch of what to look for as Big Red teams battle for the coveted title Ivy champion.

Football

Winning three of the last four games at the end of 1985 should set the tone for the 1986 Big Red gridiron season. Head Coach Maxie Baughan has 16 starters returning and a wealth of talent from the 1985 freshman team that recorded its first winning season in four years.

One of the key factors to Cornell's late-season success was the emergence of quarterback Marty Stallone. The senior received the starting nod in the last four games and completed 55 percent of his passes for 817 yards and nine touchdowns.

Senior fullback Jeff Johnson will head the running game after gaining 473 yards a year ago. Opening the holes for him will be first-team All-Ivy guard Ken Johnson, a senior co-captain. Senior Dan Gavin will fill the gap at center left by All-Ivy choice Mike Wagner while senior guard Steve Lipic and tackles Lee Reheman, a junior, and Mark Collins, a senior, will also man the trenches.

Junior Shaun Hawkins, who snared 13 passes for 302 yards last season, will lead the receiving corps. Senior Tom Malone is a two-year letterman at tight end while junior Chris Hahn leads a number of candidates for the other receiving spot.

Defensively, the Big Red should have one of the best in the An the defensive line. Senior All-American candidate Tom McHale and senior Jim Knowles occupy the end spots while classmate Chris Tull is a returning starter at tackle.

Senior John Hastings and sophomores Chris Jones, Eric Levy and Paul Davis are the top forwards for the Big Red. Junior John Bayne, a first-team Academic All-American and first-team All-Ivy choice in 1985, and senior John Swift are two of the best midfielders in the league. Sophomore Price had an impressive rookie season and makes the midfield a Big Red strongpoint.

The secondary is Cornell's most experienced in six years with the return of four starters. All-Ivy second team cornerback Mike Raich, a junior, led the team in interceptions last year and he will be joined at the other corner by senior Jim Frontero. Senior Londell McMillan, healthy after missing the first half of the 1985 season with an injury, and junior Jeff DeLamielleure occupy the safety spots.

The special teams are headed by senior punter Erick Bernstein who earned honorable mention All-Ivy accolades in 1985. Bare-footed senior Tom Aug returns at place kicker.

Most pre-season publications have the Big Red fighting for the Ivy title and an early indication of the Red's chances will come Sept. 20 when Cornell entertains Princeton,

Men's soccer

It was a classic case of "close but no cigar" last year for the Big Red booters as Cornell battled for the Ivy title down to the last game of the season. The success of 1985 should carry over into 1986 with 14 lettermen including eight starters returning.

Senior John Hastings and sophomores Chris Jones, Eric Levy and Paul Davis are the top forwards for the Big Red. Junior John Bayne, a first-team Academic All-American and first-team All-Ivy choice in 1985, and senior John Swift, are two of the best midfielders in the league. Sophomore Price had an impressive rookie season and makes the midfield a Big Red strongpoint.

A pair of senior veterans, captain Marty McCormick and Dan Mahanger, will anchor the talented defensive unit. They will be joined by classmate Mike Petrowski and junior Jeff Childs. Two-year starter Hugh O'Gorman, a senior, and sophomore Mike Zaremsky will share the goaltending duty this season.

Cornell begins the season Sept. 16 at Brooklyn and opens at home Sept. 20 against Princeton at 7:30 p.m.

Field hockey

Coming off its first winning season in 11 years (7-5-3), the Cornell field hockey team returns with eight letter winners in its quest for even greater heights in 1986.

Senior Dee O'Regan, junior Meg Bantley and sophomore Beth Paciello will head the forward line with sophomores Mary-Beth Delaney and Ellen Graap adding offensive help from the midfield. Seniors Lisa Kolongowski and Karla Griffin will lead the defensive unit while sophomore Kelly Clark is the last line of defense in goal for Cornell.

The Big Red's home opener is Sept. 17 against Syracuse at 7:30 p.m.

Volleyball

In the last four years, the Cornell volleyball team has won no fewer than 28 games in a season. This year should be no different as eight letter winners return from last year's 30-9 unit.

Senior Jodi Albright, a three-year monogram winner, heads the list of experienced personnel. Classmates Jamille Moens and Brenda Collins will also add leadership to a talented group of sophomores including Kathy Klein, Tere Duran, Barb Drugan and Pam Burke.

The spikers open their home schedule Sept. 23 against Ithaca College.

Women's soccer

Fourteen letter winners return for Coach Randy May as the Big Red women's soccer team opens its campaign Sept. 20 versus Princeton.

Junior Laurie Collier, a first-team All-Ivy and third-team All-American choice last season, will lead the Cornell offense with help from juniors Cindy Bishop and Alice McAneny and sophomore Kristin McCarthy.

Seniors Noreen Morris and Jackie Purpura will head the midfield unit while junior Alli-



son Goldwasser, an unanimous All-Ivy pick, returns as the premier defender in the League. Junior Sherrie Chocola posted six shutouts in net last season and will be counted on for even greater things in 1986.

Women's tennis

A third straight New York state championship is the goal for the 1986 Cornell netters.

The Big Red will be led by junior Barbara Prins who was 5-0 last fall at the top singles spot. Senior Jana Klein won the state singles crown as a sophomore and will look to repeat that feat in 1986. Senior Anne Meinig and juniors Erin McPeak and Carolyn Savage will also contribute greatly to the Big Red cause.

Cross country

Coach Jack Warner's men's and women's harriers will be out to improve upon their fifth place finishes at the Heptagonal Championships last year. The men's squad must replace two-time All-American Grant Whitney but seniors Charlie Bares and Lincoln Graves and sophomore Gavin Sloane will try to pick up the slack. The women are led by All-Ivy performer Sarah Day, who finished eighth at the Heps. Senior Yvette de Boer and junior Candi Calhoun will also be near the top for the Big Red.

Lightweight football

Thirty-two letter winners return for the Big Red but only the receiving unit and the kicking game are free from a rebuilding project.

Junior Dave Zittle is back at quarterback after completing 43 percent of his passes for 449 yards last season. Seniors Steve Bellamy and Steve Call return at tailback while junior Eric Boham holds down the fullback slot.

Junior Dean Hall was the club's second leading receiver last season at tight end. He will team with senior Steve Bloom and sophomore Mark Greene to give Cornell a strong receiving corps.

The Big Red offensive line lost four All-Leaguers to graduation but senior captain John Danner returns to anchor the line.

Senior tri-captain Rich Islinger will lead the defensive front while senior Chris Kelder, junior John Dattero and sophomore Will Friese are the leading candidates at linebacker.

Senior safety Mike Swift and junior defensive back Peter Hornack head up the secondary corps.

The Big Red open their season, Sept. 17, when they entertain Army at 7:30 p.m.

— Steve Ulrich

Panel to study Cooperative Extension

To consider how best to extend the ever-widening body of research-based knowledge to the people of New York State into the twenty-first century is the mandate of a Commission on the Future of Cornell Cooperative Extension newly appointed by Cornell President Frank Rhodes.

Headed by Robben W. Fleming, former president of the University of Michigan and of the Corporation for Public Broadcasting, the group includes representatives of agriculture, business, government and education.

"The Cooperative Extension programs have historically been among the great accomplishments of the land-grant colleges," Fleming said, commenting on the role he accepted. "The question arises how, if at all, to change the system to accommodate to an environment that has become very different from what it once was."

When Cooperative Extension — so named because federal, state, and local governments cooperate in its philosophy and financing — began in New York State 75 years ago, Cornell, the land-grant university, was the original source of the research information to be extended state wide.

Now a \$42 million effort, extension work-

shops, seminars, meetings, tours, printed and audio-visual materials, and requests for programs that assist in making decisions affect eight million people a year across the state. "People regard this as their tie to the University," said Lucinda Noble, director of Cornell Cooperative Extension.

"But we need to set priorities, because we do not have the resources to do all that is possible to do," she explained. "The research-based knowledge of a university like Cornell is ever-expanding. In the age of biotechnology the research base widens, so does the extending of information."

Becoming more effective, Noble suggested, could mean involving other institutions in sharing their areas of specialization, and relying more on new communications technologies, such as computerized library interlinks.

The members of the commission named by President Rhodes are:

Robert W. Bitz, president of Plainville Farms Inc. and a Cornell University trustee.

Edwin L. Crawford, executive director of the New York State Association of Counties, Albany.

David N. Dinkins, Manhattan borough president.

Natacha P. Dykman of the League of Women Voters and the Center for Governmental Research, Rochester.

Robert R. Lebman, president of the Monroe County Cooperative Extension Association and executive director of the Youth Advocacy Program, Rochester.

Richard T. McGuire, consultant to the Farm Credit System, Cambridge.

Sherry H. Penney, vice chancellor of the State University of New York, Albany.

Geoffrey Place, vice president of Procter & Gamble, Cincinnati, Ohio.

Ernesta G. Procope, president of E.G. Bowman, an insurance company, New York City, and a Cornell University trustee.

Elaine M. Ryan, assistant director of State Operations and Policy Management, Albany.

Rosalyn L. Schoonmaker, vice-chair of the New York chapter of the American Farm Bureau women's committee, Wallkill.

William T. Smith II, deputy majority leader of the State Senate, Big Flats.

James R. Tallon Jr., chairman of the health committee of the State Assembly, Binghamton.

Robert F. Wagner Jr., president of the New York City board of education.

New morning bus: A-Lot to Morrison

To accommodate the growing student population living in Cornell's North Campus area, a new morning bus route has been added to the campus system. The route runs from A Parking Lot through central campus to Morrison Hall and then back through central campus to A Lot.

The bus leaves the A Lot every eight minutes from 7:34 to 10:18 a.m. and then every 12 minutes from noon until 12:40 p.m.

The route from A lot runs west on Jessup Road across Triphammer Road, continuing on Dearborn Place and Wyckoff Avenue to Thurston Avenue, then East Avenue, Campus Road, Garden Avenue to Tower Road and right on Wing Drive over to Judd Falls Road by Morrison Hall. The bus returns to A Lot via Tower Road, East Avenue, Wait Avenue and Triphammer Road.