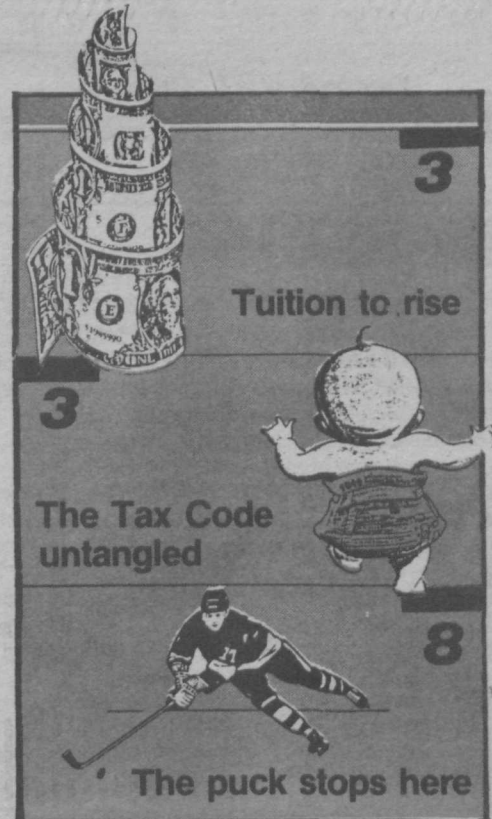


Cornell CHRONICLE

Volume 18 Number 15 December 11, 1986



Rhodes Scholarship winner keeps her sights on Cornell

"If Cornell will have me back, I certainly will pursue my Ph.D. here," said graduate student Donna Jean Roberts after learning she is among the 32 Americans chosen for Rhodes Scholarships this year.

Roberts was graduated magna cum laude in philosophy and political science from the University of Pittsburgh in 1985. She said she will use the scholarship at Oxford University to earn a second bachelor of arts degree, this time in English literature and language, with a minor in philosophy. Roberts has been a graduate student in comparative literature here since August under a Mellon Fellowship.

"I definitely want to come back to Cornell, because there are faculty members here that I am really enthusiastic about working with," she said, mentioning English professors Henry Louis Gates Jr. and Jonathan Culler and philosophy professor Anthony K. Appiah.

Cornell was the first of three graduate schools she planned to visit last spring after learning she had been awarded the Mellon Fellowship.

"I fell in love with Ithaca and the graduate faculty, and decided to come here without even seeing the other schools," she said.

Roberts will continue as a graduate student here through the spring before enrolling at Oxford in the fall of 1987. Rhodes Scholarships cover two years, with the possibility of a additional year's study.

Roberts, who had been rejected for a



Donna Jean Roberts

Rhodes Scholarship when she applied as an undergraduate at Pittsburgh, applied again this fall with the encouragement of her faculty here and former teachers at Pittsburgh.

She credits her success this time to a certain maturity in her attitudes and a clarification of goals largely acquired during a six-month visit in Britain following graduation from college last year.

Continued on page 8

\$4 million computer, animal-care facilities work approved

The university will purchase a \$4 million mainframe computer, more powerful than one it has now, to meet research and administrative needs.

The purchase was authorized by the Executive Committee of the Board of Trustees at a meeting in New York City Dec. 4.

The committee also authorized \$1.3 million in improvements to the university's animal care facilities.

Cornell's existing IBM 3081-K will be replaced by an IBM 3090-200, at a cost of \$4,050,878, according to Kenneth M. King,

vice provost for computing.

The new computer, which also will support the library automation project, will be installed in the new Computing and Communications Center on the Ag Quad. The five-year-old IBM 3081 will be offered for sale.

Also located in the computing center, which is the refurbished former Comstock Hall, is Cornell's other IBM mainframe, a model 4381-13. That machine is used for academic instruction. A third mainframe, a Digital Equipment Corp. VAX 8500, was

installed earlier this year in Uris Hall to replace a DEC 2060.

Animal facilities

Cornell's ongoing project to enhance the animal care facilities at the Ithaca and Geneva campuses should make the university one of only four in the nation with an agriculture campus to comply fully with National Institutes of Health standards.

The project's latest phase, budgeted at \$1,273,000, will allow Cornell to seek accreditation from the American Association for the Accreditation of Laboratory

Animal Care (AAALAC).

All university animal care facilities currently meet the minimum requirements of federal animal welfare laws, as enforced by the U.S. Department of Agriculture, and the Cornell University Medical College in New York City and the College of Veterinary Medicine in Ithaca are certified as meeting the stricter, voluntary standards of the National Institutes of Health.

Since 1980, Cornell has spent more than \$20 million in construction and renovation

Continued on page 7

Preliminary free speech report expected in early February

The Barcelo Commission, which is examining questions relating to free speech on campus, expects to provide the Cornell community with a preliminary report in early February, according to commission chair John J. Barcelo III.

The community will have an opportunity to respond to the preliminary report in a public hearing to be scheduled early in the Spring term, Barcelo said.

"The 10-member commission is making every effort to develop a consensus of the Cornell community on how best to insure free expression of views while maintaining order on campus," said Barcelo, a member of the law school faculty.

In public hearings Dec. 1, 2 and 4, the commission listened and responded with questions to 21 persons, mostly students

and faculty, who offered their views and advice on the issue. Most of those who spoke during the more than seven hours of hearings in the Moot Court Room of Myron Taylor Hall also gave the commission written statements.

Up to 30 persons, including reporters, were in the audience at various times during the hearings.

As of Dec. 8 the commission had received 23 written statements. Barcelo said the commission continues to welcome written comments which may be sent to The Commission on Free Speech, Office of University Faculty, 315 Day Hall.

In his Oct. 8 charge to the commission, President Frank Rhodes asked for recommendations by March 1, 1987.

— Martin B. Stiles



Joseph Bugliari, dean of faculty and a member of the Free Speech Commission, questions a speaker at hearings last week. At left, Commission Chairman John J. Barcelo III.

Notable

Keith E. Gubbins, director of the School of Chemical Engineering, has received the 1986 Alpha Chi Sigma Award of the American Institute of Chemical Engineers.

Gubbins, who is the Briggs Professor of Engineering, has been a member of the Cornell faculty since 1973. He was cited for his "pioneering development of computer simulation and perturbation theory for extension of statistical mechanical techniques to systems of engineering interest" at the AIChE annual meeting Nov. 2-7 in Miami Beach.

Statistical mechanics is the science that relates properties of fluids to their underlying molecular characteristics. Perturbation theory helps expand an understanding of simple liquid systems to those with more complex mixtures. Computer simulations based on these techniques are used in designing industrial chemical plants and have applications ranging from geophysics to biomedicine.

The prize from the fraternity of chemical engineers recognizes outstanding recent accomplishments in fundamental or applied research. It was one of six awards presented this year by the chemical engineering institute.

Daniel W. Krall, an assistant professor of landscape architecture, has received the 1986 Award for Outstanding Educator from the Council of Educators in Landscape Architecture.

The national organization cited Krall for making a "significant contribution to the discipline" and for his "outstanding academic achievements."

Krall teaches undergraduate and graduate design studios and a graduate orientation seminar.

In 1983 and 1984, Krall took part in a study aimed at revitalizing the economically depressed communities in New York State's Adirondack region. The study, which was headed by Cornell landscape architect Roger T. Trancik, resulted in a series of recommendations on planning, marketing and investment strategies for the Adirondack communities.

A member of the Cornell faculty since 1984, Krall received a bachelor of arts degree in history from Manchester College in 1968 and a bachelor of science degree in

landscape architecture from Purdue University in 1981 and a master's degree in landscape architecture from Cornell in 1984.

Arthur H. Nilson, professor of structural engineering, received the Watson Medal for the Most Meritorious Paper by the American Concrete Institute. The paper, entitled "Design Implications of Current Research on High-Strength Concrete," summarizes results of a long-term research project.

The paper was selected from about 250 papers published in 1985 by the Institute in two journals and several volumes of publications. Nilson received the same award the year before for a paper co-authored with Prof. Floyd O. Slate and Salvador Martinez. No one had received the Medal twice in a row since it was first awarded in 1917.

Barbara A. Knuth, assistant professor in the College of Agriculture and Life Sciences and a specialist in natural resource policy and management, has been named a fellow in the Leadership Development Program of the National Center for Food and Agricultural Policy in Washington, D.C.

She will spend four weeks starting Feb. 22 in Washington, D.C., participating in seminars, workshops, briefings and discussions with senior policy leaders and analysts in the public and private sectors.

In addition, she will attend public hearings, track legislation in Congress and meet with members of Congress, key administrators of federal agencies and heads of interest groups that participate in the policy-making process at the national level.

Knuth said that she will analyze national policy issues involving agriculture and its relationship with natural resources. Her research interests include analyzing public policies involving wildlife and agriculture and developing methods to improve coordination of policies, programs and institutions involved in Great Lakes fisheries management.

The National Center for Food and Agricultural Policy was established in 1984 by Resources for the Future, an independent research and educational organization based in Washington, D.C.

Editors of The New York Times Book Review selected "A Machine That Would Go of Itself" (Knopf 1986) by **Michael Kammen**, professor of history, as one of the 10 best nonfiction works reviewed by The Times this year.

Kammen's study of the Constitution in American culture was cited by The Times Dec. 7 in its annual list of best books.

"Michael Kammen's anecdotal history is committed to a survey of sentiments at the grass roots about our most fundamental political document," The Times wrote. "It is hardly comforting reading, although it is often amusing."

Weekend pipe cleaning will be noisy

Sounds like those of a low-flying jet airplane will be heard over parts of Ithaca this weekend when Cornell uses high pressure steam to clean piping at the university's central heating plant on route 366.

The high-pressure venting process is one of the final steps in the university's \$5.4 million cogeneration project, which includes installation of two turbine generators and associated piping that will improve plant efficiency and produce approximately 15 percent of campus electricity needs.

High-pressure venting will produce unusually loud noises in the immediate area six times per day Saturday and Sunday.

The sounds will exceed the noise levels established by the City of Ithaca, and the venting process will result in the closing of a short section of route 366 north of the heating plant, explained Ed Hartz, director of heating plant operations.

The project has been reviewed with city and state officials and efforts have been coordinated with local police.

"Cornell has agreed to limit its activity to about 15 minutes per occurrence and to do so between 8 a.m. and 5 p.m.," said Ithaca Mayor John Gutenberger. "In turn, we have notified officers of the Bryant Park Civic Association, the area that will be most affected by the noise."

Gutenberger said the Cornell public safety department will assume responsibility for redirecting traffic near the plant during the weekend.

Venting of this type is standard procedure for starting turbine drive equipment and is required by the manufacturer, said Hartz, adding that no toxic substances will be forced into the air.

Turner serves as intern

The Noyes Center's director, Debra E. Turner, is serving a one-year internship in the Office of Campus Affairs. The internship is part of a continuing effort to support the advancement of minority staff members.

Ms. Turner is the chair-elect of the Division of Campus Life's Strategic Planning Group, and she is coordinating efforts to address substance abuse within the campus community. She will also coordinate student leadership training and work on the division's development and public affairs projects.

Before coming to Cornell two and a half years ago, Ms. Turner worked in student services at the University of Texas at Austin and the University of North Carolina at Greensboro. She earned a bachelor's and a master's degree at Greensboro.

An active member of the Minority Faculty and Staff Forum and the Association of College Unions-International, she is also enrolled in coursework to qualify as a Ph.D. candidate in industrial and labor relations.

Briefs

■ **Campus Store holiday schedule:** The Campus Store will close for the holidays at 5 p.m. Dec. 23 and will reopen at 8:30 a.m. Jan. 5.

■ **Wintersession courses scheduled:** Students may reduce their spring term class loads or accelerate their degree programs by enrolling in courses during wintersession, which begins Dec. 26 and runs through Jan. 21, 1987.

Courses are being offered in English, government, industrial and labor relations, business and theatre arts.

Independent study and tutorials are also available. For these, arrangements should be made with a faculty member who will supervise. Application forms are available from the Division of Summer Session, Extramural Study, and Related Programs, B12 Ives Hall.

General registration will take place weekdays from 8:30 a.m. to 4 p.m. through Dec. 12 in B12 Ives Hall. For more information, call 255-4987.

■ **International T.A. training:** The Intensive English Program will offer a special program for teaching assistants whose native language is not English during intersession, Jan. 7-20 from 9 a.m. to noon daily.

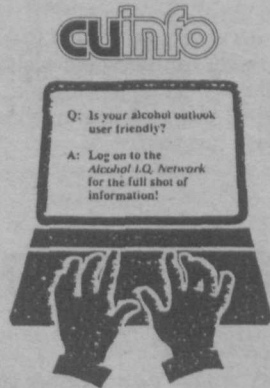
The International T.A. Training Program is free and open to international students who are currently or will be T.A.'s in the spring or fall '87 semesters. Students will receive instruction in pronunciation, rhetorical strategies and classroom dynamics. Videotapes will be used to critique student presentations.

Class size will be limited, and applications are due Nov. 24. For more information or application forms, contact Ingrid Arnesen, program director, at 255-5279 or 255-6349, or stop by 103 Morrill Hall.

■ **Short course for animal researchers:** The Center for Research Animal Resources will offer a short course in clinical methods, husbandry, and diseases in common laboratory animals Jan. 5-9.

The course is designed to teach animal technicians, graduate students and faculty the proper methods of restraint, blood drawing, infusion techniques, anesthesia and husbandry in the mouse, rat, rabbit and guinea pig. Other topics to be discussed include ethics, laws governing the use of animals in research, procurement of animals and their common diseases. Call Sue Lindsay, 253-3521, by Dec. 19 to register. Dates and times will be determined by the number of registrants.

■ **Select benefits information:** Anyone with a select benefits reimbursement account who wishes to submit a claim for December must do so with the Benefits Office by Dec. 15.



Cornell CHRONICLE

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

Obituaries

Robert S. Morison

Dr. Robert S. Morison, professor emeritus and first director of the Division of Biological Sciences, died Dec. 2 at Memorial Hospital in Nashua, N.H. He was 80.

Dr. Morison was director of Medical and Natural Sciences at the Rockefeller Foundation in New York City in 1963 when Cornell President James Perkins asked him to serve as chairman of a study committee on improving the biological sciences at Cornell.

The Morison Committee recommended establishing an innovative biology division to encompass scientists in both the private and state-supported sides of the university. In 1964, Dr. Morison became its first director. He was also appointed a professor of biology in the Section of Neurobiology and Behavior.

He was director of the Division of Biological Sciences until 1970 when he was named the university's first Richard J. Schwartz Professor of Science, Technology and Society. He retired in 1970, at the age of 70, and moved to New Hampshire, where he was a visiting professor at the Massachusetts Institute of Technology.

Son of George Abbot and Amelia Huntley (Elmore) Morison, he was born in Milwaukee, attended Phillips Exeter Academy and graduated with a bachelor's degree from Harvard College in 1930. He

received a medical degree from Harvard in 1935. He held various positions with the Harvard Medical School and was an assistant professor of anatomy until 1944, when he joined the Rockefeller Foundation as director of Biology and Medical Research. In 1959, he was appointed director of Medical and Natural Sciences.

Dr. Morison was a member of the Board of Trustees of Bennington College, Reed College and the Grass Foundation; he was a member of the board of directors of the Institute for Society, Ethics and the Life Sciences; a vice president of the American Academy of Arts and Sciences; and a member of the National Science Board, the National Science Foundation and the American Association for the Advancement of Science.

In 1983, he received the Henry Knowles Beecher Award from the Hastings Center in New York City for "distinguished lifetime contributions to ethics in the life sciences."

He is survived by a daughter, Prof. Tiana Leonard of Gainesville, Fla.; a son, John, of Peterborough, N.H.; two brothers, Elting of Peterborough and John of Milford, N.H.; and four grandchildren. His wife, Beningna Rempel Morison, died in 1983.

Services will be held at 3 p.m. Dec. 27 at the Unitarian Church in Peterborough, N.H.

Graduate bulletin

1987 Taxes: Graduate students should start keeping original receipts for all necessary books and supplies for 1987 income tax deductions. All graduate research assistants should have 1987 W-4 forms completed and returned to their respective payroll offices.

Theses submissions: Students who plan to submit M.A., M.S., M.F.A. (creative writing or music), M.P.S. (AAA), or Ph.D. theses should see the thesis adviser either shortly before or after the thesis defense to ensure that Graduate School rules are being followed.

Theses — title page to last page — should be brought between the hours of 9:30 and 11:30 a.m. or 1:30 and 3:30 p.m. No appointment is necessary. Students have only 60 days after passing the defense to submit their theses.

The deadline for a January degree is Jan. 16, 1987. (Last week's bulletin incorrectly gave the date as Jan. 17.)

Travel grant applications: All those for March conferences must be submitted by Jan. 2, 1987.

Foreign Language and Area Studies (FLAS) Fellowships: Applications are available at the World Area Program Offices or the Graduate Fellowship Office.

Once more, it will cost more to learn at Cornell next fall

Tuition for undergraduates in the university's private colleges will be between \$12,250 and \$12,450 for the 1987-1988 academic year, pending approval by the university's Board of Trustees.

That is a increase of between 6.5 and 8.25 percent over the current tuition level of \$11,500. Tuition for 1986-87 was 9.5 percent higher than the previous year's.

No changes in current financial aid policy are planned. The self-help and summer savings components of financial aid packages would remain the same. Self-help is the amount students are expected to contribute to their financial aid packages from loans

and work study.

Provost Robert Barker is discussing the financial aid policy with the Provost's Commission on Financial Aid. Also involved in discussions of these and other budget policies are the deans, the University Budget Policy Committee, the Faculty Budget Committee, the Committee on the Professional and Economic Status of the Faculty and the Executive Committee of the Board of Trustees.

Final action by the trustees is expected in March.

Tuition projections for the state-supported colleges, which are set in consul-

tation with the State University of New York, have not been determined yet. Tuition for those colleges' undergraduates is currently \$4,650 for New York State residents and \$8,100 for non-residents, increases of 6.7 percent and 4.5 percent, respectively, from 1985-86.

Preliminary figures for the graduate and professional schools are not yet available.

Room rate increases are expected to range between 7 and 9 percent over this year's rate of \$2,100.

The university was able to lower the increase in tuition costs this year because

inflation is continuing to hold steady and there has been a university-wide effort through the budget process and the departments to keep costs to a minimum, said university Treasurer James E. Morley Jr. He added that his office based its projections on an expected inflation rate of between 3 and 4 percent for 1987-88.

Tuition for the private colleges has increased by between 7.1 and 19.5 percent a year since the 1977-78 academic year, when it was \$4,400. The largest dollar increase was the \$1,140 jump from 1980-81 to 1981-82.

Blues Traditions: Piedmont Blues

The cool Piedmont breeze will be blowing into Ithaca Dec. 12 for the third weekend of the Blues Traditions series sponsored by the Arts Project at Willard Straight Hall.

John Cephas and Phil Wiggins will give a masterclass and concert Dec. 13 and Prof. Barry Lee Pearson will give a lecture on "Piedmont Blues" Dec. 12.

Pearson, associate professor of English at the University of Maryland and author of "Sounds So Good to Me: The Bluesman's Story," is a musician as well as a scholar. He has toured the United States, Africa, South and Central America and has appeared on numerous radio and television programs. His lecture will begin at 3 p.m. in the Willard Straight Art Gallery and is free of charge.

"Bowling Green John Cephas" plays a mean slide guitar and "Harmonica Phil Wiggins" jams on his blues harp to create the sounds of Piedmont blues.

The masterclass will begin at 3:30 p.m. in the Willard Straight Music Room and the concert at 8 p.m. in the Willard Straight Theatre. Admission to the class is \$3 per person and to the concert \$5. For more information, call 255-5170.



Phil Wiggins and John Cephas, who will perform at Willard Straight Dec. 13, the third weekend of the Blues Traditions series sponsored by the Arts Project at Willard Satright Hall.

How U.S. Tax Code changes affect Cornell, faculty, staff

Cornell and its employees are adjusting to the post-tax-revision world.

Many facets of recently enacted changes in the Tax Code are relevant to taxpayers inside and outside Cornell and are being discussed in great detail in newspapers and magazines and on radio and television. Other facets, which are relevant mainly to educational institutions and their faculties and staffs, include the following:

- No major substantive changes are mandated for Cornell's retirement and tax-deferred plans over the next two years.
- Faculty will be able to deduct fewer of the non-reimbursable expenses they incur as employees, and because expenses they incur for outside work such as publishing or consulting will remain deductible, performing such work will become more advantageous from a tax standpoint.
- Only part of scholarship money will be tax-exempt, and an exclusion for part of fellowship money was repealed.
- Changes in tax rates will increase the after-tax cost to wealthy individuals of contributions to educational institutions and thus could affect the amount of those contributions.
- Special funding provisions appear to permit Cornell to issue more tax-exempt bonds for financing construction and renovation.
- The tax benefits that corporations gain from funding research and development on campuses have been improved, which could pave the way for more funding of this type.

Information for this story came from various sources, including interviews with Lee Snyder, Cornell's director of personnel services; John F. Murphy, the university's senior trust officer; J. Robert Barlow, director of federal relations; and Ronald Stone, director of corporate development. Two other sources were a seminar given for Cornell faculty and staff last month by Coopers and Lybrand, and a draft of a paper prepared by Prof. Christopher Hoyt of the School of Law at the University of Missouri-Kansas City for publication by the Journal of Legal Education.

What follows are more details on the preceding items.

Retirement and tax-deferred plans

Annuities from standard TIAA-CREF retirement and tax-deferred plans — including Cornell's — no longer can include tax-free payouts for three years.

Contribution limits also have been imposed, according to Marilyn Paluba, employee benefits manager, and Nan Nicholas, employee benefits specialist. Total yearly contributions by Cornell and employees to the Cornell University Retirement Plan and the Optional Retirement Program cannot exceed \$30,000; an employee will not be able to make tax-deferred contributions of more than \$9,500 a year to the Cornell University Tax Deferred Plan; and a 10 percent tax will be imposed on early distributions from the tax-deferred plan.

Also, participants in all three plans must start receiving benefits by April 1 of the year in which they reach age 70 1/2.

Business expenses

Because a hallmark of the act is the reduction of the highest marginal tax rates, faculty and staff might want to consider deferring compensation into 1987 and incurring as many miscellaneous itemized deductions as possible before Jan. 1.

For example, faculty who have rented academic regalia might want to consider purchasing it and paying for professional and investment memberships and journals this month, along with books and depreciable business assets they normally would have purchased in 1987.

Also, faculty and staff who do not itemize and who will not be reimbursed for travel expenses might want to consider incurring as many of these expenses as possible this year instead of next.

Visiting professors and professors on sabbaticals might want to consider prepaying some of their 1987 rent if there is a legal obligation to do so.

More aid taxable

Exclusions for scholarships granted to candidates for degrees after Aug. 16, 1986, were limited to tuition, fees and costs, leaving as taxable the portion used for room,

board and other purposes. The \$300-per-month exclusion for fellowships granted to individuals who are not candidates for degrees also was repealed.

Taxes and donations

Although tax laws are not believed to be the principal factor in charitable giving, changes in the law may affect wealthy donors making large gifts, and colleges and universities receive 70 percent of their gifts in amounts of \$5,000 or more. People in lower tax brackets making smaller gifts are expected to be less likely to change their behavior.

Very high marginal tax rates benefitted charitable organizations, including universities: When a wealthy donor in the 70 percent bracket gave a gift worth \$1,000 to, say, a law school, the after-tax cost of the gift was \$300. This cost rose to \$500 in 1982 when the highest marginal tax rate was reduced to 50 percent, and it will increase again to \$720 in 1988 when a maximum tax rate of 28 percent is fully implemented.

Major fund-raising drives for the construction of a building or for a major endowment are said to be most likely to feel the greatest impact from the Tax Code changes.

Persons planning to make donations to universities will gain an advantage from doing so this year instead of in 1987 — particularly if the gifts involve stocks, real estate or other appreciated, long-term-capital-gain property.

Previously, taxpayers could deduct the full market value of donated property as a charitable contribution without recognizing as income the increase in the property's value. But starting next month, the amount of unrealized appreciation is subject to the minimum tax.

One way to avoid triggering the alternative minimum tax is to stretch out gifts of appreciated property over several years, thus reducing the amount of untaxed gain in any year and taking maximum advantage of the exemption amounts.

John F. Murphy, Cornell's senior trust officer, was asked what effect the changes in the tax code are having on individuals

Changes in tax rates will increase the after-tax cost of contributions to universities and may affect the level of contributions.

planning to make donations to the university.

"The whole thrust of our program this year is to tell alumni that we can work with them and their attorneys and counselors in planning for year-end gifts that would be beneficial for tax purposes," Murphy said.

Letters have been sent to alumni indicating the university's willingness to do so, he continued, and alumni requests for such advice have increased.

Financing growth

The new legislation also prevents private colleges and universities from issuing more tax-exempt bonds if they have more than \$150 million of such bonds outstanding. The result is that they will have to pay higher taxable interest rates on newly issued indebtedness.

However, Cornell was among educational institutions to receive special financing provisions in the new legislation, according to J. Robert Barlow, the university's director of federal relations.

"It appears that Cornell — which has approximately \$250 million in outstanding tax-exempt bonds — can issue another \$150 million worth of such bonds, plus refinance as much of its current indebtedness as it wants," Barlow said. He noted that university officials are awaiting further interpretation of the legislation.

— Barry Gross

Cornell CHRONICLE

The Cornell Chronicle will be published next week, Dec. 18, and then not again until Jan. 15.

CALENDAR

All items for the calendar, except seminar notices, should be submitted (typewritten, double spaced) by mail or in person to Fran Appar, Central Reservations, 531 Willard Straight Hall.

Notices must be received 10 days prior to publication and must include the name and telephone number of a person who can be called if there are questions, and also the sub-heading of the calendar in which the item should appear, i.e. dance, lectures, music, etc.

Seminar notices should be sent to arrive at the Chronicle office, Village Green, 840 Hanshaw Road, 10 days prior to publication.

These deadlines will be enforced.

DANCE

Israeli Folkdancing

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

Cornell Folkdancing

Holiday Party, Dec. 13, 6-12 p.m., dinner at 7 p.m., Moakley House on Warren Road. Dancers are invited along with family and friends and are requested to bring a dish to share at dinner.

EXHIBITS

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 a.m. to 5 p.m. Admission is free. Call 255-6464 for further information.

"Shouts from the Wall (Gritos de la Pared)," an exhibition of 26 political posters from the Spanish Civil War on loan from the Tamiment Archives of New York University's Bobst Library, through Dec. 21. Sponsored by the Western Societies Program and the Department of Romance Studies to commemorate the 50th anniversary of the war.

"American Modernism: Precisionist Works on Paper," features 40 works that explore the beauty of rural and urban American architecture, industrialism and landscapes. The show, which includes works by Charles Demuth, Preston Dickinson, Louis Lozowick, Morton Shamburger, Charles Sheeler, Niles Spencer and Joseph Stella, continues through Dec. 21.

"New York State Artists VI," the sixth invitational exhibition of contemporary work by five upstate New York artists whose art chal-



lenges assumptions about "types" of art and expresses unusual perceptions, through Dec. 21.

"A Personal View: Photography in the Collection of Paul F. Walter," displays 70 photographs dating from the beginning of the medium to the present and reflects Paul Walter's admirable intelligence and independence as a collector, through Dec. 21. Among the 20th-century photographers featured are Cecil Beaton, Henri Cartier-Bresson, Man Ray, Imogen Cunningham, Atget and Paul Strand.

Olin Library

"Fight for Freedom: The Hungarian Revolution after 30 years," through Dec. 20.

"1936 - 1956 - 1986: War and Revolution in Spain and Hungary," First Floor and lower level, Sunday - Thursday, 8 a.m. - midnight.

Fine binding marbling since 1976, Rare Books room, 8 a.m. - noon; 1 p.m. - 5 p.m.

FILMS

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

Thursday 12/11

"God's Angry Men" (1977), *"Huie's Sermon"* (1980), and *"Precautions Against Fanatics"* (1969), directed by Werner Herzog, 8 p.m., Uris Hall Auditorium. Sponsored by the Arts College Pentangle program.

Friday 12/12

"About Last Night" (1986), directed by Edward Zwick, with Rob Lowe, Demi Moore, Jim Belushi, Elizabeth Perkins. Limited. 10:45 p.m., *Statler Auditorium.

"Cocoon" (1985), directed by Ron Howard, with Don Ameche and Steve Guttenberg. Limited. 9:45 p.m., *Uris Hall Auditorium.

"Ran" (1985), directed by Akira Kurosawa, with Tatsuya Nakadai and Akira Terao. 7:15 p.m., *Statler Auditorium.

"My Beautiful Laundrette" (1986), directed by Stephan Frears, with Daniel Day Lewis, Saeed Jaffrey, Roshan Seth, Gordon Warnecke. 7:30 p.m., *Uris Hall Auditorium.

Saturday 12/13

"About Last Night," 7:15 p.m., *Statler.

"Cocoon," 7:30 p.m., *Uris.

"Ran," 9:45 p.m., *Statler.

"My Beautiful Laundrette," 10 p.m., *Uris.

Sunday 12/14

"Return of the Jedi" (1983), directed by Richard Marquand, with Mark Hamill, Harrison Ford, Carrie Fisher, Billy Dee Williams. Co-sponsored with the Ithaca Youth Bureau. Limited. 2 p.m., Statler Auditorium. Admission \$2, \$1.50 under 12.

"On the Waterfront" (1954), directed by Elia Kazan, with Marlon Brando, Rod Steiger, Eva Marie Saint. 8 p.m., *Uris.

"San Francisco Video Festival II," 2 p.m., Johnson Art Museum. Co-sponsored with CCPA.

Monday 12/15

"One Eyed Jacks" (1961), directed by Marlon Brando, with Marlon Brando and Karl Malden. Limited. 8 p.m., *Uris.

Tuesday 12/16

"A Streetcar Named Desire" (1951), directed by Elia Kazan, with Marlon Brando, Vivien Leigh, Kim Hunter, and Karl Malden. Limited. 8 p.m., *Uris.

Wednesday 12/17

"The Godfather" (1972), directed by Francis Ford Coppola, with Marlon Brando, Al Pacino, and James Caan. Limited. 8 p.m., *Uris.

Thursday 12/18

"Last Tango in Paris" (1973), directed by Bernardo Bertolucci, with Marlon Brando. Open. 8 p.m., *Uris.



Diners, donning costumes and equipped with scripts, become actors in a Mummer's Play during the holiday season. The play included jugglers, a magician and a procession of the boars head.

MUSIC

Bound for Glory

Records from the studio... Dec. 14.

Broadcast live on FM 93 on Sundays from 8 to 11 p.m. Also on 105.5 FM

RELIGION

Sage Chapel

Service of Lessons and Carols, Dec. 14, 11 a.m.

Familiar carols sung by the congregation; music by the Cayuga Lake Brass Quintet; readings from the scriptures on the Nativity; and elements from the traditional Moravian Lovefeast.

Readers will be Dean David Drinkwater; Dean Joseph Bugliari; Mick Ellis, director of Robert Purcell Union; Dorothy Cotton, director of student activities; Wilson Small, campus affairs business manager; Irma Almirall-Padamsee, assistant director of COSEP.

Catholic

Mass: Every Saturday, 5 p.m., Anabel Taylor Auditorium. Every Sunday, 9:30 and 11 a.m. and 5 p.m., Anabel Taylor Auditorium. Monday through Friday, 12:20 p.m. Anabel Taylor Chapel.

Sacrament of Penance Saturdays from 3 to 4 p.m., G22 Anabel Taylor, or by appointment, 255-4228.

Christian Science

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

Episcopal (Anglican)

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

Friends (Quakers)

Sunday, 9:45 a.m., adult discussion, 11 p.m. meeting for worship, Edwards Room, Anabel Taylor Hall.





adrigal Dinner at Willard Straight's Memorial Room last weekend. Other entertainment
Photos by Charles Harrington

Great Commission Students
Worship service: Every Sunday, 10:30 a.m.
314 Noyes Center.

Jewish
Morning Minyan: 7:30 a.m. Young Israel
House, 106 West Ave. Call 272-5810.
Reform Shabbat Services: Every Friday, 6
p.m.
Conservative/Egalitarian Shabbat Services:
Every Friday, 6 p.m., Anabel Taylor Found-
ers Room; every Saturday, 9:45 a.m., Anabel

Taylor Founders Room.
Orthodox Shabbat Service: Every Friday,
Young Israel, 106 West Ave. Call
272-5810. Every Saturday, 9:15 p.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

Biochemistry, Molecular and Cell Biology

"Retro DNA Integration," Anna Marie
Skalka, Department of Molecular Oncology,
Roche Institute of Molecular Biology, Roche
Research Center, 4:30 p.m., Dec. 12, 204
Stocking Hall.

"Role of Extracellular Matrix in Regulating
the Functions of Macrophages and Endothe-
lial Cells," Sam Silverstein, Department of
Physiology & Cellular Biophysics, Columbia
University, 4:30 p.m., Jan. 9, 204 Stocking
Hall.

Biophysics

"Studies of the Self-Organization of Cell
Organelles with Synchrotron Radiation," Joan
Bordas, SERC Daresbury Laboratory, War-
rington, England, 4:30 p.m., Dec. 17, 700
Clark Hall.

Genetics and Development

"Homeotic Mutations and the Regulation
of Shoot Development in Corn," Scott Poe-
thig, Department of Biology, University of
Pennsylvania, 4 p.m., Dec. 15, 135 Emerson
Hall.

International Nutrition

"Does Migration Help You Escape Pov-
erty?" Katherine Terrell, Program on Com-
parative Economic Development, 12:45 p.m.,
Dec. 11, 100 Savage Hall.

Mechanical and Aerospace Engineering

"Useful Results Relevant to Second-Order
Modelling of Two-Dimensional Turbulence,"
J.R. Ristorcelli, Sibley School of Mechanical
and Aerospace Engineering, 1 p.m., Dec. 16,
282 Grumman Hall.

Microbiology

"Gene Control of Photosynthetic Activity
in the Facultative Photoheterotroph, Rhodo-
bacter Sphaeroides," Sam Kaplan, Depart-
ment of Microbiology, University of Illinois,
Urbana, 4:30 p.m., Dec. 11, 124 iStocking
Hall.

Neurobiology and Behavior

"Male Dispersion and Mate Choice in Sage
Grouse," Jack Bradbury, University of Cali-
fornia, San Diego, 12:30 p.m., Dec. 11, Mor-
ison Seminar Room, Corson/Mudd Room.

Pharmacology

"Nicotinic Cholinergic Recognition Sites in
Mammalian Brain," Kenneth Kellar, Depart-
ment of Pharmacology, Georgetown Univer-
sity, 4:30 p.m., Dec. 15, Pharmacology
Library (D101L Schurman Hall).

Rural Sociology

"Dilemmas Facing Minority Farm Opera-
tors in the Current Agricultural Crisis," E.
Yvonne Beuford, The Fort Valley State Col-
lege, Georgia, 12:15 p.m., Dec. 12, 32 Warren
Hall.

MISC

Nursery School

The University Cooperative Nursery School,
Robert Purcell Union, has several openings
available for 4 and 5 year olds in its afternoon
program. For information call Robin at
273-6733.

Suicide Prevention

Suicide Prevention and Crisis Service of
Tompkins County is again seeking volunteers
for its 24-hour telephone hotline. The next
training session beings in January and runs six
weeks, meeting Monday and Thursday even-
ings. There will also be half-day Saturday ses-
sions. For more information, call 272-1505.

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, 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 spiritual-
ity and mysticism.



International Teaching Assistant Training Program

Jan. 7 - 20 from 9 a.m. to noon daily. This
program is free and open to international
graduate students whose native language is not
English, and who are currently or will be TAs
in the Spring '87 or Fall '87 semesters. Stu-
dents will receive instructions in pronuncia-
tion, rhetorical strategies, and classroom
dynamics; the other component of the pro-
gram is the extensive use of videotapes to cri-
tique student presentations. For further
information and applications contact Ingrid
Arnesen at 255-5279 or 255-6349.

Center for Research Animal Resources

Clinical Methods, Husbandry, and Diseases
in Common Laboratory Animals: During the
week of Jan. 5 - 9, 1987, the Center for the
Research Animal Resources will be offering a
short course designed to instruct animal tech-
nicians, graduate students and faculty in the
proper methods of restraint, blood drawing,
infusion techniques, anesthesia and husbandry
in the mouse, rat, rabbit and guinea pig.
Other topics to be discussed include: ethics,
laws governing the use of animals in research,
procurement of animals and their common
diseases. To register, call Sue Lindsay at
253-3521 by Dec. 19.

EARS

Empathy, Assistance and Referral Service,
EARS, provides short-term counseling for
both callers and walk-ins. Located in 211 Wil-
lard Straight Hall, one floor below the Ivy
Room. Telephone, 255-EARS. Open seven
days a week, hours are 3 p.m. to 11 p.m.
Sunday - Thursday and 7 p.m. to 11 p.m.
Friday and Saturday. All services are free and
completely confidential.

Job Opportunities

December 11, 1986
 Number 48
 University Personnel Services
 Cornell University
 160 Day Hall
 Ithaca, New York 14853-2801

HIRING FREEZE BEGINS DECEMBER 4, 1986 THROUGH JANUARY 2, 1987. WINTER HOLIDAY SCHEDULE: Due to the Winter Holiday, there will be no 'Job Opportunities' list on December 25, January 1 or January 8. Therefore, requisitions received after noon on Thursday, December 11 through noon on Thursday, January 8, 1987 will be posted in the January 15 issue of 'Job Opportunities.'

Administrative and Professional

The minimum salaries listed are for recruitment purposes only.

ASSISTANT TREASURER (PA484) Vice President and Treasurer

Responsible for banking relations; outside investment management oversight; debt management; receipt, custody, control and disbursement of University funds including Cash Management Office and related control functions; Risk Management and Insurance; Capital Planning; and Investment Office accounting and administration.

Requirements: Bachelor's, MBA preferred and 5-7 years banking-financial management experience. Relevant experience in traditional treasurer functions and capital planning. Excellent management, problem solving and communication skills required. Send cover letter and resume to Cynthia Smithbower by 1-5-87.

SENIOR TRAINING ASSOCIATE (P483) University Personnel Services

Assist in planning, development and administration of a wide variety of training and human resource development programs and services for University non-academic staff. Assist in definition of mission, goals, objectives, policies and procedures. Assist in administration of University Performance Appraisal System.

Requirements: Master's degree in Education, Organizational Behavior or similar field. 3-5 years experience in development and administration of comprehensive range of training programs and services. Excellent teaching-training skills. Experience in adult education. Superior verbal and written communication skills. Instructional design skills. Superior human-interpersonal relations skills. Send cover letter and resume to Cynthia Smithbower by 2-2-87.

RESEARCH SUPPORT SPECIALIST II (PT481) Diagnostic Laboratory

Conduct experiments to determine which viral proteins are responsible for development of protective immunity in animals and to develop rapid diagnostic tests using these proteins. Must be able to conduct experiment protocols with minimum supervision.

Requirements: Bachelor's in microbiology or biochemistry. MS preferred. Analytical techniques for nucleic acid characterizations; radioisotope training; analytical techniques for protein characterization and identification. Tissue culture techniques; virus propagation and purification; immunological techniques. Send cover letter and resume to Judi Pulkinen.

SYSTEMS ANALYST III (PT362) Integrated Pest Management-Report

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.

ADMINISTRATIVE MANAGER (PC467) Physics-Report

Supervise technical and secretarial staff; manage business and finances for instructional activities; plan and coordinate space renovation for department; coordinate teaching program and assistantship assignments; oversee planning and organization of public functions. Act in Chairman's absence.

Requirements: Bachelor's degree or equivalent. Minimum 2 years administrative experience, preferably in an academic environment. Good writing skills and familiarity with Physics helpful. Send cover letter and resume or call in confidence to Esther L. Smith (607) 255-6874.

SYSTEMS PROGRAMMER III (PT392) Computer Science-Report

Provide programming, and consulting support in Lisp. Develop, install and maintain software and specialized artificial intelligence tools; manage facility, supervise staff; participate in long range planning.

Requirements: B.S. degree in mathematics or computer science. Related research programming experience or graduate work in computer science. Ability to develop large Lisp systems and familiarity with current Lisp tools. Experience using Symbolics Lisp Machines, plus a knowledge of Common Lisp essential. Systems programming in UNIX desirable. Send cover letter and resume to Judi Pulkinen.

PURCHASING MANAGER (PA476) Dining Services

Administer procurement of food, beverage and equipment in accordance with established University policy and sound purchasing practice. Emphasis is given to developing innovative methods resulting in effective cost, beneficial purchasing and internal controls.

Requirements: Bachelor's in business or related field plus 3-5 years experience or equivalent education and experience. Excellent organizational and communication skills. Send cover letter and resume to Cynthia Smithbower by 1-2-87.

SUPERINTENDENT, GENERAL CONSTRUCTION (PA4714) Maintenance & Service Operations

Manage University's \$7 million-year in-house construction projects. Duties include scheduling, project management, training methods, customer relations and enterprise budgeting for 4 Unions shops (Carpenter, Sheet Metal, Paint and Masonry-90 tradespeople).

Requirements: Bachelor's degree in Architecture, Engineering, or Construction Management preferred plus 7-10 years experience in building or heavy construction. Proven interpersonal, communication and supervisory skills. Send cover letter and resume to Cynthia Smithbower by 12-19.

SUPERINTENDENT, TECHNICAL SHOPS (PA4715) Maintenance & Service Operations

Manage University's Technical Shops. Duties include scheduling, project management, training, methods, customer relations, enterprise budgeting for the Control, Electric, Plumbing, and Refrigeration shops. Annual projects of approximately \$5 million.

Requirements: Bachelor's degree in mechanical or electrical engineering or related field. 5 years of physical plant or related experience. Proven interpersonal, communication and supervisory skills. Send cover letter and resume to Cynthia Smithbower by 12-19.

COORDINATOR FOR DISABLED & VIETNAM ERA VETERANS (PA4716) Office of Equal Opportunity

Act as University's 503, 504 Coordinator and implement the program as prescribed in the 504 Self-Evaluation Plan and University Affirmative Action Plan. Work with disabled students, faculty and staff to identify reasonable accommodations they require in housing, dining, transportation, classrooms, etc. Provide financial, career and personal counseling. Develop and carry out programs to assist students in adjusting to Cornell and increase awareness of and sensitivity to the disabled and their issues. Work with disabled and veteran applicants on Cornell employment issues. Review architectural plans and meet with architectural committees to assure accessibility in new construction and major renovations. Other duties as assigned. 30 hours per week.

Requirements: Bachelor's degree or equivalent experience. Knowledge of Sections 503 and 504 of the 1973 Rehabilitation Act with Section 402 of the Vietnam Era Veterans' Readjustment Act of 1972. Previous experience in working with students in higher education. Counseling experience required. Education or experience in dealing with a wide range of disabilities and special accommodations. Experience in dealing with disabled adults and their issues, especially young disabled adults. Demonstrated excellence in organizational abilities, written and oral communications. Send cover letter and resume to Cynthia Smithbower.

EXTENSION SUPPORT AIDE (PT471) Cooperative Extension Administration

Assist in development and implementation of a comprehensive program for At Risk Farm Families including NY FarmNet callers and related audiences.

Requirements: Bachelor's degree in agriculture required. Strong written and oral communication skills required. Ability to work with diverse audiences. Knowledge of farming and farm families required. Valid NYS driver's license required. Willingness to travel. Knowledge of Cooperative Extension desirable. Send cover letter and resume to Judi Pulkinen by 12-19.

SENIOR TECHNICAL CONSULTANT (PT4712) Computer Services: Academic Computing

Provide high-level statistical computing support services through teaching, consulting, and evaluating software. Support related research computing applications, including statistical graphics and database systems.

Requirements: MS degree or equivalent in statistics or related discipline. 3-5 years experience as a statistical computing consultant; in depth knowledge of mainframe and micro-computer statistics software. Send cover letter and resume to Judi Pulkinen.

ENVIRONMENTAL HYGIENIST I (PT473) Environmental Health

Recognize, evaluate and control chemical, physical, and biological hazards in the workplace. Take environmental measurements, interpret results. Provide consultation and advice on environmental health concerns. Supervise and implement new programs, direct technicians, interface with regulatory personnel.

Requirements: B.S. or equivalent required, M.S. desirable in physical or biological science or engineering. ABIH CORE certification (or certification desired). Experience with environmental sampling devices instrumentation and methods. Familiarity with OSHA and EPA regulations. Good written and oral communication skills. 1-2 years in comprehensive environmental health program required. Send cover letter and resume to Judi Pulkinen.

COMPENSATION SPECIALIST (PA479) Personnel Services

Assist in implementation and administration of University's non-academic compensation plan. Extensive contact with all levels of faculty, administration, and staff, university-wide.

Requirements: B.A.-B.S. or equivalent in Personnel-Business Management or related field. Advanced degree preferred. 2-4 years in various personnel-human resources areas of specialization (compensation, staffing, benefits, employee relations, training); Business management or higher education experience helpful. Analytic, organizational abilities; interpersonal and verbal (written and oral) communications skills. Computer skills (SAS-LOTUS) desirable. Send cover letter and resume to Cynthia Smithbower by 1-5-87.

ASSISTANT DIRECTOR OF STUDENT SERVICES (PA475) Office of Instruction

Assist Coordinator of Student Services in providing counseling services, planning and administering activities of office, and maintaining student advising system for the College of Agriculture and Life Sciences.

Requirements: Bachelor's degree required. Master's preferred. Experience in human services area; ability to make independent decisions; strong interpersonal skills; ability to relate to student problems; good organizational skills; ability to meet the public and make oral presentations; computer experience helpful. Send cover letter and resume to Cynthia Smithbower by 12-19.

STAFF NURSE (P4713) University Health Services

Screen and assess patient needs after hours. Provide nursing care for patients admitted to after hours service. 9 month position; 5 nights per week, 11:00 p.m. - 7:00 a.m.

Requirements: NYS Nursing License. Graduate of accredited nursing school. Recent experience in hospital nursing with emergency nursing background desirable. Send cover letter and resume to Cynthia Smithbower by 12-19.

PUBLICATIONS CONSULTANT AND WRITER (PC435) Publications Services

Analyze publications and communications needed to develop new publications or rework existing publications to answer identified needs and relate to overall promotional goals of university; work with campus clients to develop printed materials; analyze current publications to identify duplications and gaps; assess publications needs of university to identify materials that can be produced for those needs; work with editors, designers and photographers.

Requirements: Bachelor's degree. Excellent writing skills. Marketing or public relations experience, preferably in a college or university. Familiarity with word processing desirable. Send cover letter, resume, 3 writing samples or call in confidence to Esther L. Smith (607-255-6874) by 12-22.

STUDENT DEVELOPMENT SPECIALIST III (PA417) Career Center-Report

Coordinate career planning and placement activities for minority students; provide career-placement programs; develop cooperative relationship with employers, college placement offices, college minority offices, and student organizations. Handle special administrative projects such as Career Center News and Minority Employment Study.

Requirements: B.A. degree; Master's degree or equivalent preferred in counseling, student personnel, education or related areas. Career counseling skills; understanding of minority career development needs; 2 years experience in higher education, counseling, or career planning and placement. Send cover letter and resume to Cynthia Smithbower.

DIRECTOR (PA4611) Facilities Engineering

Will be University Engineer. Facilities Engineering includes all electrical, mechanical, structural, civil, and architectural design for repairs, maintenance, alterations, and plant operations. Responsible for project and energy management, space inventory, and plant long range planning. Provide technical standards and review for both maintenance and new construction. Direct \$2 million enterprise with 20 professionals and 20 support staff.

Requirements: BS in Engineering or Architecture, Master's preferred. Professional license strongly preferred. Extensive experience in facilities engineering, managing multi-discipline engineering functions. Highly developed technical, interpersonal and writing skills. Send cover letter and resume to Cynthia Smithbower by 1-15.

SYSTEMS PROGRAMMER III (PT451) Theory Center-Report

Under general supervision, perform systems analysis, design, programming and documentation for projects in Cornell National Supercomputer Facility. Provide software support and technical leadership for both users and other Theory Center staff.

Requirements: Master's degree or equivalent with a wide range of programming experience utilizing high-level languages. Demonstrated ability to work in scientific or large-scale computing environment. IBM mainframe (VM-CMS) and Fortran experience a plus. Send cover letter and resume to Judi Pulkinen.

TECHNICAL CONSULTANT III (PT072) Theory Center-Report

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. 3-5 years related experience including some experience with mainframe computers, experience with VM-CMS and array processors desirable; fluency in at least 2 programming languages; demonstrated ability to work with complicated programs; strong written and interpersonal communication skills. Send cover letter and resume to Judi Pulkinen.

RESEARCH SUPPORT SPECIALIST II (PT065) Physiology-Report

Design and conduct, in collaboration with principal investigator experiments directed towards cloning and characterization of intestinal DNAs and genes. Study of control of gene expression during development and differentiation of intestinal epithelium. Will assist in preparation and co-authoring publications.

Requirements: Master's degree in biology with emphasis in biochemistry and molecular biology, or genetics. Some experience in recombinant DNA techniques such as mRNA purifications, DNA cloning and sequencing required. Send cover letter and resume to Judi Pulkinen.

SYSTEMS ANALYST III (PT362) Cooperative Extension-Report

Direct development and implementation of

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

Requirements: BS in mathematics, physics, computer science, or related discipline, experience in development of an information system. Design and programming of micro computer software experience desirable. 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 - 6:00 p.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. DUE TO THE HOLIDAY SEASON, NO CLERICAL INTERVIEWS WILL BE CONDUCTED AT EAST HILL PLAZA WEDNESDAY, DECEMBER 17, 24, 31, 1986, AND JANUARY 7, 1987. THEY WILL RESUME ON JANUARY 14, 1987.

ADMINISTRATIVE AIDE, GR22 (C482) Administrative Services

Coordinate functions of payroll and personnel for approximately 300 non-exempt employees which includes interpretation and execution of 3 union contracts. Prepare payroll vouchers, union payments, sick and vacation records, DBL and Workmen's compensation reimbursement. Supervise accounts assistant; reconcile payroll to job cost system.

Requirements: A.A.S. degree or equivalent. Minimum 2-3 years experience preferred. Medium typing. Knowledge of accounting and IBM and Mac personal computers. Knowledge of all union and personnel policies and benefits required. Excellent communication skills and ability to work with detail essential.

Minimum Bi-weekly Salary: \$539.94

WORD PROCESSING OPERATOR, GR21 (C487) University Development

Supervise personnel and coordinate operating procedures of word processing center. Manage work flow; perform production work; keep records of all work completed.

Requirements: A.A.S. degree or 3-5 years office experience, preferably in word processing. Ability to operate Microm 3004. Strong organizational and supervisory skills. Good grammar, spelling and proofreading skills. Ability to train other operators.

Minimum Bi-weekly Salary: \$512.32

ACCOUNTS ASSISTANT, GR20 (C488) Unions & Activities

Serve as head account clerk. Responsible for implementation of a cash handling-double verification system; preparation of banks, tape reconciliation, cash reports; deposit preparation; time card, accounts payable and receivable processing; monthly journals; oversee an assistant.

Requirements: A.A.S. degree or equivalent. Bookkeeping and accounting skills. Previous responsibility for house funds, bank and deposit preparation, payroll processing.

Minimum Bi-weekly Salary: \$482.33

OFFICE ASSISTANT, GR20 (C4810) Office of Sponsored Programs

Provide secretarial and administrative support. Responsible for processing various aspects of sponsored program proposals, including document revision, drafting straightforward to moderately complex correspondence. Other duties as assigned.

Requirements: Associate's degree or equivalent. Medium typing. Minimum 2-3 years related experience. Ability to operate word processor. Strong interpersonal communication and organizational skills. Knowledge of University procedures. Ability to set priorities and to work in a complex, active environment.

Minimum Bi-weekly Salary: \$482.33

SECRETARY, GR20 (C489) Real Estate

Provide administrative and accounting support. Prepare and edit correspondence; arrange appointments and travel; serve as receptionist; supervise clerical staff. Monitor all real estate accounts; prepare financial reports, maintain suspense and document accounts and confidential personnel files, coordinate administrative matters.

Requirements: A.A.S. degree or equivalent. Minimum 2-3 years office experience. Medium typing. Machine dictation. Supervisory skills. Ability to work independently. Experience with Cornell accounting system preferred. Strong interpersonal skills. Attention to detail. Word processing and computer experience or willingness to learn. Real-estate or legal experience helpful. Valid driver's license required.

Minimum Bi-weekly Salary: \$482.33

RECEPTIONIST-SECRETARY, GR18 (C4811) Law School

Screen calls from prospective clients for pre-application eligibility for Clinic Services,

maintain and operate complex calendar, appointment and message system. Liaison between clients and students. Provide word processing production of legal documents and other materials. Responsible for mail, supplies and maintaining files for closed cases; and file retrieval.

Requirements: H.S. diploma or equivalent. Some college preferred. Medium typing. Some legal clerical experience helpful. Excellent interpersonal and communication (verbal and telephone) skills. Skilled in using of WordPerfect system on IBM personal computer preferred. Ability to set priorities and to work in a complex active environment. Confidentiality essential.

Minimum Bi-weekly Salary: \$431.43

SECRETARY, GR18 (C481) ILR Extension

Provide secretarial support for Buffalo Labor Studies Program. Maintain mailing lists; student, bookkeeping and other records; process registration and checks; prepare travel vouchers; answer phone calls, provide information on current and up-coming programs. Other duties as assigned. Western District- Buffalo.

Requirements: H.S. diploma or equivalent. Secretarial school desirable. Minimum 1 year related experience. Accuracy and attention to detail necessary. Excellent organizational, interpersonal and communication skills required. Personal computer and word processing experience.

Minimum Bi-weekly Salary: \$431.43

SECRETARY, GR18 (C489) Economics

Type and file classwork, correspondence and research manuscripts; make travel arrangements; set up appointments. Other duties as assigned.

Requirements: H.S. diploma or equivalent. Secretarial school desirable. Heavy typing. Technical typing and Microm word processing skills. Excellent organizational skills essential. Ability to work independently and set priorities essential.

Minimum Bi-weekly Salary: \$431.43

WORD PROCESSING OPERATOR, GR18 (C486) Plant Pathology-Geneva

Type correspondence, reports, manuscripts, grant proposals, tables and charts; assist with payroll and business operations; answer telephone and record messages; handle reservations; maintain updated publications lists, faculty resumes, current reprint and computer file of mailing lists, and process reprint requests.

Requirements: H.S. diploma or equivalent. Business school desirable. Heavy typing. Knowledge of word processing desirable. Familiarity with computer terminals (CRT and printer), dictaphone and copy machine. Driver's license. Excellent interpersonal and communication (written and oral) skills. Ability to set priorities and to work in a complex, active environment.

Minimum Bi-weekly Salary: \$431.43

WORD PROCESSING OPERATOR, GR18 (C485) Agricultural Engineering

Provide typing support using word processing equipment to enter, revise and play back manuscripts, proposals, newsletters, directories; type variable correspondence and classwork from various forms of materials including handwritten copy, cut and paste work, dictated materials and papers entered on floppy disks.

Requirements: H.S. diploma or equivalent. Minimum 3-5 years secretarial experience and 1-2 years with word processing equipment. Demonstrated expertise with the English language. Courses relevant to operation of word processing equipment. Experience with IBM-PC 'WordPerfect' or Macintosh 'Word' or Microm very helpful.

Minimum Bi-weekly Salary: \$431.43

OFFICE ASSISTANT, GR17 (C4813) Law School

Primary responsibility is telephone coverage for faculty. Assist registrar's office with course registration, evaluation process, exam processing, grade reporting, graduation preparation, attendance certifications. Other duties as assigned.

Requirements: H.S. education required. Business or secretarial school desirable. Knowledge of IBM PC, WordPerfect software or willingness to learn. Excellent organizational, interpersonal, and communication (written and oral) skills. Ability to work with faculty and students. High level of confidentiality required.

Minimum Bi-weekly Salary: \$409.53

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. Employee Transfer Applications should be mailed to Bill Webster, Cornell Employment Office, East Hill Plaza, Ithaca, NY 14850.

MATERIAL HANDLER, SO19 (G482) General Stores-Endowed

Under general supervision, complete warehouse duties including receiving, order picking, distribution, customer service counter, delivery, cycle counting, and general house-keeping. Monday through Friday, 7:30 a.m. to 4:00 p.m.

Requirements: H.S. diploma or equivalent. NYS Class V driver's license required. 3-4 years related warehouse-retail experience required in 1 or more recognized major skills. Good interpersonal skills. Familiarity with trades (plumbing, electrical, etc.) terminology required. Ability to read and write and complete basic arithmetic required. Interested employees should submit a transfer application

New computer *Continued from page 1*

of animal care facilities, according to Fred W. Quimby, director of the Cornell Center for Research Animal Resources.

Quimby said the newest project includes improvements to the fresh air ventilation system and the addition of air conditioning, and the sealing of room surfaces so they can be cleaned with disinfectant.

John E. Holman, director of the NIH Laboratory Animal Sciences Program, said Cornell's final plans have been evaluated and are "complete and satisfactory." He described Cornell's ongoing laboratory animal program as "comprehensive and well-documented."

Quimby said the project, which is expected to be completed within one year, "should make Cornell one of 29 universities that is in full compliance with the strict NIH standards."

Cornell has more than 40,000 laboratory animals for teaching and research. Poultry and fish, particularly salmon and trout, comprise the largest portion of the university's research animal population.

Quimby, a veterinarian, said Cornell University has 177 trained personnel caring for animals. The center that Quimby directs is responsible for training animal care

workers for implementing the university's animal care program.

Funding for this latest upgrade project includes a \$447,414 grant from NIH, a special state allocation, and borrowed funds. Part of the cost will be borne by the colleges and the Office of the Vice President for Research.

In other business, the Executive Committee authorized the administration to participate in forming a specialty insurance company to help stabilize liability insurance premiums for colleges, universities and private secondary schools.

Cornell will become a sponsoring member in the formation of School, College, and University Underwriters Ltd., a collaboration among the National Association of College and University Business Officers, Morgan Guaranty Trust Co. and Marsh & McLennan. The latter two have developed similar insurance vehicles offering excess liability coverage to corporations.

SCUUL will provide excess liability insurance coverage at reduced rates, according to James E. Morley Jr., Cornell vice president and treasurer. Coverage will be better than in the past and the policy will have fewer exclusions, he explained.

Agribusiness outlook to be discussed Dec. 16

Cornell agricultural economists will discuss the health of the nation's agriculture and how it will shape up in 1987 at a conference scheduled for Dec. 16 in Room 45 of Warren Hall.

The Agribusiness Situation and Outlook Conference will feature a series of talks ranging from the general economic situation and outlook to new developments and trends in agricultural economics.

Discussions will cover the dairy, livestock, fruit and vegetable industries; the outlook for farm expenses for feed, fertilizer, fuel and pesticides; the financial health of farm businesses, agribusiness firms and agricultural lenders in New York State; research and outlook for food distribution; and a study aimed at developing farming alternatives.

The day-long conference, which is sponsored by the Department of Agricultural Economics in the College of Agriculture and Life Sciences, will start at 10 a.m. with a talk on "What's New in Agricultural Economics" by Robert J. Kalter, chairman of the Department of Agricultural Economics.

Other Cornell agricultural economists scheduled to make presentations are Kenneth L. Robinson, George L. Casler, Gerald B. White, R. Brian How, Walter Wasserman,

Wayne A. Knoblauch, Eddy L. LaDue and Edward W. McLaughlin. Also on the speaker list is animal scientist Danny G. Fox.

Personnel reorganizes

University Personnel Services has undergone a major reorganization, according to its director Lee M. Snyder.

Gerald S. Thomas has been named deputy director of the department, and he will oversee staffing, training and development and employee communication. He will also continue to provide consulting services as head of Organizational Services.

David S. Yeh has been appointed associate director. He will oversee benefits, compensation and information systems.

Karen Canfield has been appointed manager of compensation; Judy Atcheson, manager of training and development; and Laurie Roberts, manager of employee communication.

A search is currently underway for a manager of staffing. Cynthia Smithbower will continue as acting manager until the search is completed.

Job Opportunities *Continued*

by 12-18 to Bill Webster, Cornell Employment Office, East Hill Plaza.
Minimum hourly rate: \$6.04

ANIMAL TECHNICIAN, GR18 (G485, G486) Laboratory Animal Services-2 Positions

Responsible for daily care of laboratory animals including proper care and feeding, providing fresh water and exercise, general cleaning and maintenance of cages, pens and environment. Maintain laboratory animals identification, inventories and breeding charts. Other duties as assigned.

Requirements: H.S. diploma or equivalent. A.A.S. in Animal Science preferred. Some animal handling experience desirable. Assistant Animal Certification helpful. Must be in good condition; able to lift 50 pounds. Pre-employment physical required. Interested employees should submit a transfer application to Bill Webster, Cornell Employment Office, East Hill Plaza.

Minimum Bi-weekly Salary: \$431.43

PRINTING ASSISTANT, SO17 (G483) Graphic Production Services-Endowed

Under general supervision, perform bindery operations including scheduling and machine set-up and operation. Monday through Friday; 8:00 a.m. to 4:30 p.m.

Requirements: H.S. diploma or equivalent. 2-3 years experience in all phases of general bindery work, specifically in a commercial job shop printing plant. Mechanical ability. Familiarity with collators, folders, stitchers, binders and related equipment. Able to lift 50 pounds. Interested employees should submit a transfer application to Bill Webster, Cornell Employment Office, East Hill Plaza.

Minimum hourly rate: \$5.42

FOOD SERVICE WORKER, SO14 (G481) Dining Services-Endowed

Set-up, display, and serve food or beverage. Other food preparation or service duties as assigned. Full-time regular position; shift subject to change.

Requirements: Basic reading and computational skills required. Good customer relation skills. Knowledge of food handling preferred. Able to lift 40 pounds. Interested employees should submit a transfer application to Bill Webster, Cornell Employment Office, East Hill Plaza.

Minimum hourly rate: \$4.66

PRINT MACHINE OPERATOR, SO22 (G4715) Agricultural Economics-Statutory

Run offset presses (A.B. Dick 369T, A.B. Dick 360, Plate Maker), printing press (702 Perfector Davidson, Plate Maker), and other periphery equipment (Off-line collator-stitcher-folder, perforator, cutter, punch). Assume responsibility of daily operations in absence of Press Room Supervisor. Monday-Friday; 39 hours per week; flexible shift; 2 year appointment with continuation contingent upon funding.

Requirements: H.S. diploma or equivalent. Technical training in offset printing and other related equipment desired. Printing press experience desired; mechanical knowledge preferred. Job requires constant standing and ability to lift heavy cartons of paper.

Minimum hourly rate: \$7.07

OFFICE ASSISTANT, GR19 (G393) Campus Store-Respost

Under general supervision, responsible for ordering technical and reference books, timely process of orders and stock shelves, interact with technical reference book vendors and handle majority of customer related issues. Monday - Friday, 8:30 a.m. - 5:00 p.m.; occasional weekends.

Requirements: H.S. diploma or equivalent; Associate's degree or equivalent preferred. 1-3 years retail experience. Experience in textbooks-tradebooks helpful. Ability to operate or learn to operate cash register. Ability to work under pressure. Strong communication, interpersonal, and organizational skills. Ability to lift 50 lbs.

Minimum Bi-weekly Salary: \$457.09

Technical

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, GR20 (T482) Neurobiology and Behavior

Prepare live nervous tissue from insects for neuroanatomical observation.

Involves mostly light, but some electron microscopy.

Requirements: B.S. in Biology or equivalent. 2-3 years related lab experience. Knowledge of histology and light and electron microscopy. Send cover letter and resume to Judi Pulkinen by 12-2-87.

Minimum Bi-weekly Salary: \$482.33

ANIMAL TECHNICIAN, GR18 (T481) Physiology

Participate in long-term animal experiments with pregnant animals. Perform all aspects of general animal maintenance and maintain experiment records. Blood sampling and preparation of infusions.

Requirements: Bachelor's degree in biological sciences or equivalent. Previous experience with sheep useful. Send cover letter and resume to Judi Pulkinen by 1-2-87.

Minimum Bi-weekly Salary: \$431.43

TECHNICIAN, GR19 (T414) Section of Physiology-Repost

Provide technical preparation and characterization of monoclonal antibodies to pig and human intestinal brush border membrane proteins, evaluate antibody activities by immunofluorescent staining of tissues and affinity purification of antigens. Preparation of cell culture items of general use and ordering of lab supplies.

Requirements: BS in Biological Sciences. Knowledge of cell culture and sterile techniques, in particular culture of hybridomas preferred. Send cover letter and resume to Judi Pulkinen by 1-2-87.

Minimum Bi-weekly Salary: \$457.09

TECHNICIAN, GR21 (T475) Veterinary Microbiology

Perform cell and tissue culture, virus growth and purification, and analysis of retroviral genes and gene products using a variety of procedures including electrophoresis, ultracentrifugation, nucleic acid hybridization and enzymatic and biochemical assays. Assist with supervision of undergraduate work-study students. Maintain clean lab, accurate records, supply inventory, and service of lab equipment. Order supplies.

Requirements: Bachelor's degree in Microbiology or related field. 1-2 years experience in virology lab. Knowledge of aseptic techniques, cell culture, and biochemical techniques. Send cover letter and resume to Judi Pulkinen by 12-19.

Minimum Bi-weekly Salary: \$512.32

TECHNICIAN, GR21 (T477) Food Science

Assist in research on the shelf-life of milk and dairy products and post-processing contaminants. Responsibilities include use of a computer microbial monitoring system and isolation and identification of bacterial cultures from dairy products. Assess methods of measuring for post-processing contaminants. Assist in planning and conducting experiments.

Requirements: B.S. in Food Science, Dairy Science or Microbiology. 3-4 years experience in dairy-food microbiological analyses and skills. Familiarity with procedures for isolation and identification of bacteria. Some knowledge of computers and statistical analysis. Send cover letter and resume to Judi Pulkinen by 12-19.

Minimum Bi-weekly Salary: \$512.32

TECHNICIAN, GR21 (T479) Biochemistry

Assist in biochemical aspect of cancer research including tissue culture and radioactive isotope work.

Requirements: B.S. in chemistry, biochem-

mistry, or related area. 2-3 years related experience required. Send cover letter and resume to Judi Pulkinen.

Minimum Bi-weekly Salary: \$512.32

RESEARCH AIDE, GR19 (T478) Food Science

Provide technical support for research project on the improvement of milk and dairy products quality and shelf-life identifying quality problems and proposing remedial actions. Conduct experiments, analyze data, isolate, identify and maintain bacterial cultures and maintain laboratory equipment and supplies.

Requirements: B.S. in Food Science, Dairy Science or Microbiology. 1-2 years experience in standard microbiological analyses preferably on food and dairy products. Skills in microbiological analysis techniques. Send cover letter and resume to Judi Pulkinen by 12-19.

Minimum Bi-weekly Salary: \$457.09

TECHNICIAN, GR19 (T476) Biochemistry, Molecular and Cell Biology

Perform experiments on lipid-protein interactions and calcium transport. Prepare lipid samples, perform spectrophotometric assays, synthesize phospholipids and enzyme catalysts.

Requirements: B.S. in Chemistry plus 2-3 years laboratory experience. Familiarity with biochemical methods necessary. Send cover letter and resume to Judi Pulkinen by 12-19.

Minimum Bi-weekly Salary: \$457.09

CHESS OPERATOR, GR24 (T253, T252) CHESS-Repost-2 Positions

Provide technical assistance to users on experimental radiation beams. Implement safety codes. Responsible for any malfunctions in CHESS system and software problems associated with instrument control. May assist in experimental programs. Evening and weekend hours required.

Requirements: B.S. degree or equivalent in technical field such as physics or engineering. Good mechanical and lab skills. Familiarity with vacuum equipment. Send cover letter and resume to Judi Pulkinen by 12-19.

Minimum Bi-weekly Salary: \$607.21

Part-Time

SECURITY GUARD (MUSEUM GUARD), GR18 Johnson Museum

Responsible for guarding all works of art in building, following security and safety procedures, communication with appropriate staff members on a regular basis. Tuesday, Saturday, Sunday, 9:45 a.m. to 5:15 p.m.; day and evening subbing on non-scheduled work days and special events.

Requirements: H.S. diploma or equivalent. Ability to work with schedules and in a group situation. Background in security area helpful. Dependable in reporting and attentive to detail necessary. Good communication skills. Interested employees should submit a transfer application to Bill Webster, Cornell Employment Office, East Hill Plaza.

Minimum hourly rate: \$5.11

COMPUTER STAFF SPECIALIST (PT4312) Mathematics-Repost

Supervise and maintain a VAX 750 with VMS and UNIX operating systems. Perform applications programming for computation modules for elementary and advanced mathematics courses. Perform day-to-day tasks such as installation and writing.

Requirements: Bachelor's degree or equivalent education and experience. Knowledge of C, Pascal, Fortran 77 and APL. Familiarity with networks and microcomputers helpful. Send cover letter and resume to Judi Pulkinen.

PROGRAM COORDINATOR, I (PA472) Cornell Adult University

Responsible for all aspects of developing, advertising, administering, supervising, and evaluating the CAU summer youth program, including program staffing, facilities and support systems arrangements; budgeting; staff orientation, training and on-site supervision. Half time February through April, August and September; full-time May, June, July.

Requirements: Master's degree or equivalent in youth education or related field. Experience in youth recreational programming, particularly program design and administration. Must demonstrate exceptional ability to represent CAU in dealings with many constituencies including youth, students, parents, alumni, University faculty and staff, and others. Send cover letter and resume to Cynthia Smithbower by 12-19.

VISUAL SPECIALIST I (PT4710) Center for Environmental Research

Produce artwork and prepare illustrations for technical documents, publications, posters, brochures, and slidesets in a natural resources field. Compile, design and edit various documents for technical and lay audiences. 20 hours per week.

Requirements: B.A. or equivalent. 2-3 years experience with computer graphics packages; knowledge of basic hydrology, soil science, crops and ecology helpful; layout experience and basic writing training required. Send cover letter and resume to Judi Pulkinen by 12-19.

RESEARCH AIDE, GR22 (T471) Food Science

Conduct literature search concerning role of lipids and especially polyunsaturated fatty acids in nutrition and their effects on eicosanoids and physiological functions. 30 hours available.

Requirements: BS in nutritional biochemistry with knowledge of lipid biochemistry. Library research and word processing skills required. Demonstrated ability to summarize technical literature and aptitude for writing reports required. Submit sample writings, resume and cover letter to Judi Pulkinen by 12-19.

Minimum full-time equivalent: \$539.94

DRAFTER, (G466) CLEARS

Assist in project work involving drafting, design and implementation of natural resource factor maps, and development of land use and resource information. Operate a Diazo blueprint machine, prepare materials for shipment, other duties as assigned. 20 hours per week; 6 month appointment.

Requirements: Basic working knowledge of drafting tools, working knowledge of map preparation preferred. Background in art, graphics, cartography, landscape architecture, natural resources, land use, or soils. Apply in person at the East Hill Plaza Employment Office, Monday-Friday, 9:00 a.m. - noon.

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 Lauren Worsell at 255-5226.

CIRCULATION-RESERVE ASSISTANT (C4812) University Libraries

Responsible for operation of Circulation Desk; handling of reserve materials; filing of loose-leaf services. Other duties as assigned. 9:00 a.m. to 1:00 p.m. Monday through Friday, until 4-30-87.

Requirements: A.A.S. degree or equivalent. Previous library experience preferred. Call Michele Draiss at 255-9560.

RELIEF STAFF NURSE (P4714) University Health Services

Screen and assess patient needs after hours. Provide nursing care for patients admitted to after hours service. 9 month casual position; 2 nights per week, 11:00 p.m.-7:00 a.m.

Requirements: NYS Nursing License. Graduate of accredited nursing school. Recent experience in hospital nursing with emergency background desirable. Send cover letter and resume to Cynthia Smithbower.

INTERVIEWER (PA474) Rural Sociology

Interview representatives of various local new businesses and community and county economic development agencies in upstate New York. Full-time, temporary until June 30, 1987.

Requirements: Bachelor's degree in social science or business. Coursework in entrepreneurship, small business structure and changes, or related topics desired. Previous interviewing experience required. Ability to make appointments with respondents and own travel arrangements; personal typing skills required. Computer experience desired. Send cover letter and resume to Cynthia Smithbower by 12-19.

ACCOUNTS ASSISTANT (C461) Veterinary Medical Teaching Hospital

Record daily charges for hospitalized cases in assigned clinic, prepare final vouchers at discharge, provide Saturday coverage as needed.

Requirements: H.S. diploma or equivalent plus some college with accounting or bookkeeping. Minimum 2 years accounting or bookkeeping experience necessary. Billing experience in a medical setting desirable. Call Laurie Worsell at 255-7044.

TEMPORARY FOOD SERVICE WORKERS (G444) Dining Services - Repost

Prepare, present, and serve food or beverages; wash dishes, pots and pans; other duties as assigned. Flexible schedules to suit your needs: 1-5 afternoons or evenings per week, shifts available between 1:30 p.m. - 11:00 p.m.

Requirements: Working knowledge of food preparation and presentation preferred. Apply in person at the East Hill Plaza Employment Office, M-F, 9 am - noon.

GLASS WASHER (G487) Animal Science
Wash glassware, maintain laboratory cleanliness. 10 hours per week, flexible schedule.

Apply in-person at the East Hill Plaza Employment Office, M-F, 9 am - noon.
Hourly rate: \$3.50

Academic

ASSISTANT PROFESSOR OF SCIENCE EDUCATION (A481) Agriculture and Life Sciences

Send letter of application, vita and 3 letters of recommendation to Professor Joe Novak, Chairperson, Search Committee in Science Education, 404 Roberts Hall, Cornell University, Ithaca, NY 14853 by 1-5-87.

EPIDEMIOLOGIST (A482) College of Veterinary Medicine

Submit a curriculum vitae, statement of career goals and past research accomplishments and the names of 3 references to Dr. Roy V.H. Pollock, Chairman, Epidemiology Search Committee, NYS College of Veterinary Medicine, Cornell University, Ithaca, NY 14853.

LARGE ANIMAL SURGEON (A472) College of Veterinary Medicine

Send curriculum vitae, reprints of 3 published articles, and names of 3 references with a letter of application to Dr. R.P. Hackett, Chairman, Search Committee, NYS College of Veterinary Medicine, 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 of the Information and Referral Center in Day Hall and other campus locations.

Outside applicants for technical positions

SPORTS

The social event of the season — the Cornell-Harvard hockey game — turned into disappointment as the Crimson ripped the Red, 6-3, at Lynah Rink last Sunday. Cornell is now 2-4 overall.

Harvard, now sitting atop the ECAC with a perfect 8-0 record, opened the scoring in the first period on a goal by Don Sweeney. The Crimson extended its lead to 3-0 as Craig Taucher and Lane McDonald scored late in the first period.

The Big Red closed the gap to 3-1 as Mark Major pushed a puck past Harvard netminder Dickie McEvoy at 18:10. And the team knotted the score in the second stanza on goals by Darren Snyder and Pat Heaphy and brought the capacity crowd at Lynah to its feet.

Those were to be the last Red tallies though, as Harvard came out smoking in the third period and scored three unanswered goals: John Murphy scored at the 3:52 mark, Tod Harchee sent one in with five minutes remaining and Lane McDonald iced the cake with just three minutes to go.



The Crimson overpowered The Red, 6-3, at Lynah Rink last Sunday.

One bright spot for the Red was goaltender Darin McInnis who recorded 42 saves on the afternoon while Cantab goalie Dickie McEvoy stopped 24 Cornell attempts. The Big Red is now off until Dec. 28 when it travels to Wisconsin to face the Badgers.

Cornell opened the track season by winning four events at the Syracuse Relays

last Sunday.

Senior Steve Case led a sweep in the 50-meter hurdles with a time of 7.1. Junior Lyndon Providence was second and Doug Simmons was third.

In the triple jump, sophomore Michael Saunders captured first place with an indoor personal best of 47-2 1/4.

Sophomore Xavier Washington's 47.7 anchor leg highlighted a Cornell 4x400-meter relay victory. Junior Dave Sudduth, Case and Providence were the other three competitors.

And the team of senior Lincoln Graves, sophomore Erik Lukens, sophomore Ron Fritz and sophomore Gavin Sloane ran 17:36.2 to win the 4x1600-meter relay.

In other events, junior Mike Troiano recorded a 51-6 1/2 personal best in the 35 lb. weight throw to place second. And freshman Steve Peebles ran a 1:56.1 800-meter leg to lead the sprint medley relay to a second place finish.

Cornell will compete at the Cornell Relays Dec. 13 at Barton Hall. The meet begins at 11 a.m. and at least 11 schools will take part in the event.

— Marcy Dubroff

Sunday 12/14

Men's Indoor Track - Cornell

Relays, 11 a.m. Barton Hall.

Women's Indoor Track - Cornell

Relays, 11 a.m. Barton Hall.

Grant supports ceramics studies

The belief that engine turbines someday will be made from ceramics instead of metal has prompted an Ithaca-based company to provide the university \$50,000 for ceramics research.

"The Japanese are running way ahead of this country in ceramics development," said Robert R. Spole Sr., chairman of Therm Inc. "We have to develop ceramic materials and make them stronger to remain competitive."

Therm Inc. machines turbine blades for all types of turbomachinery, including applications for use in ships and airplanes. Therm's clients include General Electric Co., Rolls Royce, Pratt and Whitney and Dresser Industries, Spole said. The company has created its own ceramic division to fabricate silicon nitride ceramic components.

"We think ceramics are the material of the future. We can't afford to allow the United States to be left behind," Spole said.

Today's turbine blades are made from metal alloys. Ceramic blades can make engines more efficient by allowing them to operate at temperatures that would melt current metal components, according to Arthur L. Ruoff, director of materials science and engineering.

Cornell researchers already are studying how ceramics can be used in engines, as packaging for integrated circuits and in other ways, Ruoff said. Cornell's ceramic research program is supported by the National Science Foundation and grants from Corning Glass Works and International Business Machines Corp.

"The grant from Therm will support ongoing studies, and will fund renovations to provide space for a new professor," Ruoff said. "There is a severe shortage of scientists and engineers trained in high-technology ceramics. This award will help us attract another expert in the field."

High-technology ceramics are made from materials such as silicon, carbon, aluminum and nitrogen, which are more abundant and harder than natural metals and have a higher melting point. They must be machined by using diamonds and ultrasound techniques. Metal is not strong enough to cut modern ceramics, Ruoff said.

The key disadvantage of ceramics is their brittleness. Cornell researchers are studying the molecular bonding of ceramics to find ways to make them more durable, Ruoff said.

Eventually, it may be possible to manufacture a complete ceramic jet turbine rotor in one mold pressing, Ruoff said. That would save time, energy and money compared to the current machine manufacturing and assembly of metal turbines, he said.

Spole's grandsons, Cornell graduates William and Robert West, are helping guide Therm's ceramic work, Spole said. Robert is manager of Therm's ceramic fabrication division and William is working as a research engineer while completing graduate study in materials science. Spole is a member of the Cornell Class of 1935.

— Mark Eyerly



Cornellians may well have set the record for the world's largest coffee break Dec. 4 as 300 people broke for coffee between 8:45 and 9:15 a.m. in the Ivy Room of Willard Straight Hall. They drank some 20 gallons of coffee — Dutch Chocolate Almond and Colombian Supreme, and for every participant, \$.50 was donated to either Ithaca Rape Crisis or EARS. Getting ready to toast the roast are, from left, Peg Lacey, director of Cornell Dining; Ross Flax, a representative of the Coffee Development Group; Stuart Orefice, assistant director of Cornell Dining; Jessica Ettinger, WVBR-FM; Lee Peckenpaugh, Ivy Room supervisor; and Howie Greenstein, WVBR. Next stop: the Guinness Book of Records.

Rhodes Scholar *Continued from page 1*

"For one thing, as a waitress and bartender at the Royal Albert (concert) Hall in London, I gained a great deal of respect for the kind of intelligence it takes to perform these jobs well," Roberts said.

Then an excursion to Scotland's Edinburgh Festival in August turned into a month-long orgy of theater-going, during which "I renewed my love for literature," she said.

Robert has always been interested in the issue of critical thinking and in becoming a professor. But as she pointed out in her Rhodes Scholarship essay, "My interest in applied philosophy remains intense. However, I have decided to make comparative literature, rather than politics or economics, my primary vehicle for cross-cultural analysis. It is certain that both philosophers and literary scholars will think me a renegade for attempting to wed philosophical inquiry to literature and for seemingly ignoring the desirability of studying literature for its own sake."

She said literature and philosophy approach the same questions differently, but she finds the "conflict between reason and passion in literature" more exhilarating than the more discursive approach of philosophy.

Roberts said she wishes to teach courses in which "philosophical texts would be used to propose a moral position, while literary works would present fictional worlds in which characters act as moral agents, thus illustrating a particular ethical point of view."

Roberts feels that literary study goes beyond intellectual curiosity and serves an

important social function. "The intellectual and emotive appeals of literature make it an ideal medium of critical inquiry that can be addressed to the plurality of ethical viewpoints within cultures and individuals," she said.

Linked to her basic approach is Roberts' ambition to introduce into the accepted literary tradition works by minorities and women, countering the tacit implication that "thoughtful literature belongs to a white, male domain."

By the end of the century, 50 percent of the nation's student population will be minorities, she pointed out.

Last spring, Roberts worked as a consultant to the Pittsburgh Public School Board on a project aimed at developing analytical skills through classroom discussion based on the use of "great books." She helped create an anthology, including minority and women writers, that "reflects the variety and diversity of written expression on the human condition in American society."

Roberts was valedictorian of Penn Hills Senior High School in a suburb of Pittsburgh. She was elected to Phi Beta Kappa in her senior year at the University of Pittsburgh.

Gates, one of her intellectual mentors here, could not be reached for comment on whether Roberts will be allowed to return to Cornell after her studies at Oxford. He was in Stockholm for the Nobel Prize ceremonies at which his friend, the Nigerian playwright and novelist Wole Soyinka, received the prize in literature.

— Martin B. Stiles

Barton Blotter:

Evergreens stolen

Three evergreen trees worth a total of \$750 were cut down and stolen from university property over the Thanksgiving break, according to the morning reports of the Department of Public Safety for the period Nov. 26 through Dec. 4.

Also, two holiday wreaths with a total value of \$90 were taken from Myron Taylor Hall between 1 a.m. and 6 a.m. Dec. 4.

These thefts were among 13 reported during the 10-day period with losses in cash and valuables set at \$2,443.

Other losses included a \$380 leather jacket, a necklace and bracelet valued at \$290, a \$250 coat, and a \$150 10-speed bike.

One person was referred to the judicial administrator on a charge of causing an injury to the mouth of a classmate.

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

Please ... don't cut the trees

The Department of Public Safety warns that cutting down Christmas-type trees on university property violates both civil and criminal law and the campus judicial system.

Every season rare trees valued at hundreds and in some cases thousands of dollars are cut down around Christmas time, particularly in the areas of the Cornell Plantations and the Cornell Golf course.

Most of these trees are marked in ways unknown to the public but which identify them as university property.

In the past, penalties and fines along with restitution have been levied for cutting trees. Most trees are valued at more than \$1,000, making charges a felony.

Extra police patrols will be made where university trees grow.

Christmas tree farms are located in the Ithaca area and trees can be obtained legally from them without defacing university landscaping and destroying valuable specimens.

The Public Safety Department appreciates the public's assistance. If you notice someone cutting a tree or a suspicious person or car in tree areas, call Public Safety immediately at 255-1111 or utilize one of the Blue Light Phones.