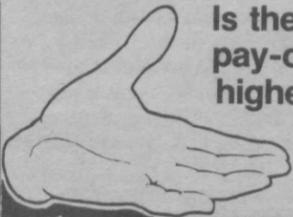
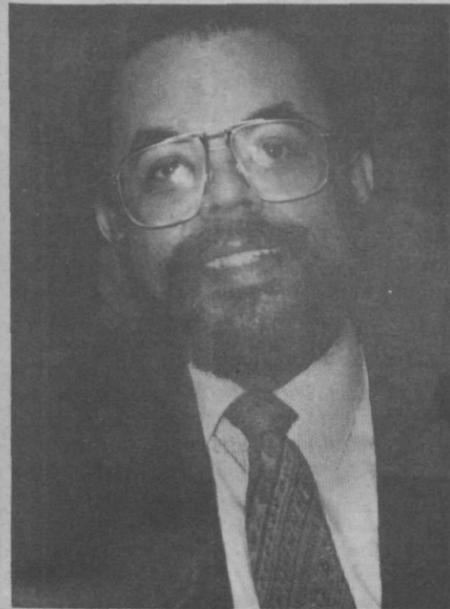


# Cornell CHRONICLE

Volume 19 Number 20 February 4, 1988

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Claude Levett

Henry Louis Gates Jr.

## Gates named first DuBois Professor

Professor Henry Louis Gates Jr. feels thrice blessed these days: He is moving into an endowed chair that was created for him; the chair is named for his lifelong hero; and he says that plans to recruit more scholars of black literature mean that, "almost overnight, Cornell will be the best place to study black literature in the world!"

Moreover, one of his signal research works — 30 volumes of fiction and nonfiction written by black women between 1773 and 1910 — is being published this month by Oxford University Press.

The endowed chair that the much-honored Gates calls "the greatest honor imaginable" is the W.E.B. DuBois Professorship of Literature. The chair, and his appointment to it, were approved in December by the Executive Committee of Cornell's Board of Trustees.

In proposing both actions to the committee, Provost Robert Barker called DuBois the "foremost 20th century black American intellectual" and said of Gates:

"At age 37, he is an acknowledged *wunderkind*. In 1981, he was the youngest person to win a MacArthur Prize fellowship, the highly acclaimed 'genius' award. He . . . is in constant demand as a speaker and participant at conferences around the world."

Barker said the chair's creation was intended "to recruit and/or retain scholars whose achievements both exemplify and encourage DuBois' faith in the significance of education."

It is largely the promise of developing such scholarship that has kept Gates at Cornell, despite well publicized efforts by leading universities — including Duke and Stanford — to win him away.

Gates said that Cornell already has "one of the strongest centers for black studies, considered by many people to be number one in the country right now. And because of the affirmative-action thrust adopted so aggressively by Geoffrey Chester, dean of the College of Arts and Sciences, several new appointments are in the works."

The professor noted that five black Ph.D. candidates joined the English Department

Continued on page 9.

## New Theory Center plan approved

Cornell's Board of Trustees has approved a new proposal for a College of Engineering and Theory Center building that is farther from the gorge and shorter than originally planned.

Critics of the earlier plan say the new proposal better protects the environment of Cascadilla Gorge and represents a more aesthetic design. It also would leave untouched Grumman Hall, the site of plasma physics and mechanical engineering laboratories.

According to the new plan presented last weekend by architects Gwathmey Siegel and Associates of New York City, the \$30 million, seven-story building would consist of two connected units — a square segment housing meeting rooms, computers and offices, and a long, office-building segment that follows the curve of Campus Road.

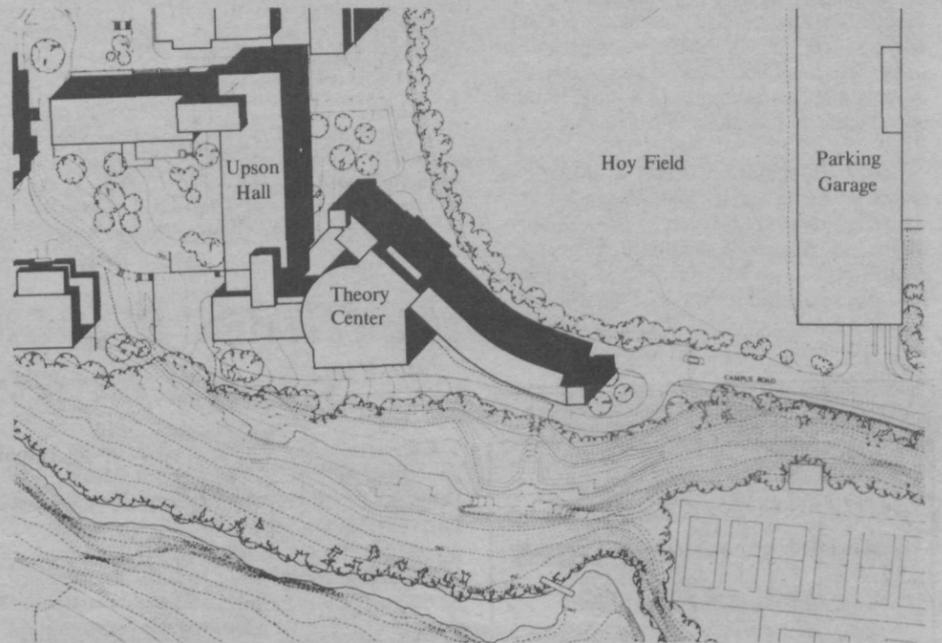
The top four floors would house the Theory Center; and the bottom three, faculty, students and staff from the College of Engineering. A large, basement-level laboratory space would be linked to Grumman Hall, and the building also would connect on the north side to all four floors of Upson Hall. The new building would have 197,000 gross square feet compared to 252,000 for the building originally planned for the site.

Under the new proposal, the building would be 30 feet from the Cascadilla Gorge tree line at its closest point — the east end — and up to 40 feet at its west end. The building would rise 120 feet above Campus Road at its east end and 134 feet above ground level at its west end.

The previous plan was for an eight-story building 140 feet high at its eastern end and 160 feet high at the western end, and a minimum of 20 feet from the gorge tree line. Part of the decreased height at the western end is because the building does not extend as far down the slope of the site as before.

The access road to the rear of Grumman Hall and the proposed building would lie entirely within the existing parking lot, and no regrading would be needed.

During the next several weeks, the design concept will be presented for public discus-



A detail of the Engineering College master plan showing the new design and location of the Theory Center along Campus Road.

sion, after which a refined proposal will be submitted to the New York State Urban Development Corporation. The UDC is providing a \$5 million grant and a \$5 million loan to help fund the building. The UDC must give final approval before the project can proceed. Other funding for the building will come from Cornell and gifts from corporations, foundations and individuals.

After the plans are submitted to the UDC, probably in March, the agency will conduct a public hearing and an environmental review of the project. The Cornell Board of Trustees also will be asked to approve subsequent stages of the design.

"We consider this new plan an extraordinarily creative answer to the problems presented by this site," said John F. Burness, vice president for university relations. "The

building meets or exceeds each of the design criteria we discussed with community leaders when the university agreed to investigate moving the building. It is further from the gorge than we had asked and integrates beautifully with its immediate environment, including Cascadilla Gorge.

"At the same time, the new plan has a visual impact that we think befits the dynamic nature of Cornell's programs in engineering and supercomputing. Virtually everyone who has seen the building is enthusiastic about it. Despite the \$1 million in additional cost and the lengthy delays, the controversy surrounding this building has yielded a much better design and, we hope, a better working relationship with all those concerned about these issues," Burness said.

Continued on page 12

## Trustees give nod to field house construction, plans for Engineering, Veterinary Medicine

The Board of Trustees last week approved the start of construction of a new field house, endorsed long-term development plans for the Colleges of Engineering and of Veterinary Medicine, and heard optimistic year-end reports on research and gifts. Meetings of the board and its committees took place Wednesday, Thursday and Friday in New York City.

Construction of the new field house, to be built just east of Lynah Rink, should begin in early summer and be completed in the spring of 1990, according to Senior Vice President James E. Morley Jr. The \$16.6 million project will be financed entirely by gifts, Morley added.

The field house will have three basketball courts, including one for varsity games, and retractable stands for 5,000 spectators. It also will include a multipurpose room with a 40-foot-high ceiling and artificial turf to accommodate baseball and lacrosse practice.

The field house will complete Phase I of the Athletic Department's master plan, which already has brought improvements and renovation at Schoellkopf Field and

Barton Hall and replacement of the Oxley Polo Barn with a new equitation center. New squash, tennis and swimming facilities are to be part of Phase II, which cannot proceed without the further commitment of gifts.

The approval of broad development plans for engineering and veterinary medicine followed presentations by the two colleges' deans, William B. Streett and Robert D. Phemister.

Streett's master plan calls for enlarging the engineering quadrangle by 250,000 net square feet, the first increment of which will be the Theory Center building. He also talked of adding at least two other buildings on the Campus Road side of the quadrangle, with a tower that might mark the northeast entrance. The trustees' approval of his broad plan, however, addressed no specific building except the Theory Center.

What the trustees did approve was Streett's vision for keeping Cornell in the forefront of "engineering education [that assures] the nation's economic competitiveness."

Besides updating and expanding facilities built mostly in the 1950s, the plan calls for increasing the teaching and research faculty from 218 today to 236 by the year 2000, keeping undergraduate enrollment about at its present 2,600 students and leveling off graduate-student enrollment (up 70 percent in the last decade) at 1,200 or 1,300 — up from the present 1,100.

He reported that enrollment of women reached 22 percent this year, well above the national average, and that, while enrollment of black and Hispanic students was at about the national average of 5 percent, the ratio of those getting degrees was 62 percent for blacks and 76 percent for Hispanics, exceeding national averages.

Streett also reported on two important undergraduate initiatives: plans to involve more students in research and plans to require more upper-class writing and, later, speaking courses to improve communication skills.

Phemister's plan similarly called for newer and larger space because "we are vic-

Continued on page 11

## Notable

Robin M. Williams Jr., the Henry Scarborough Professor Emeritus of Social Science, is one of six people to win a 1988 Common Wealth Award of Distinguished Service. Williams was nominated for the honor, which carries an \$18,000 cash award and a trophy, by the American Sociological Association.

Williams was cited for his "work on race relations [that] marks him as one of the outstanding sociologists in the United States. . . . He is equally acclaimed for another scholarly enterprise — his analysis of the structure and functioning of American society," according to Common Wealth Awards.

Williams is the author of "American Society: A Sociological Interpretation," a book which Common Wealth Awards says "has become the model for sociologists in other countries who have attempted analyses of their own social institutions."

The Common Wealth Awards are part of the Common Wealth Trust managed by Bank of Delaware. The trust was made under the will of Ralph Hayes, who served in the Office of Secretary of War, the motion picture industry, publishing, banking and as an executive with Coca-Cola Co.

Sonya Monosoff, professor of music, will spend next summer in New Zealand — where it will be midwinter — on a Fulbright lectureship. She will lecture, give recitals and coach chamber music groups at four New Zealand universities, concentrating on early music. Monosoff will bring with her baroque and classical violins for her performances.

### Faculty to discuss report on minorities

The next meeting of the Faculty Council of Representatives is scheduled for Feb. 10 at 4:30 p.m. in 120 Ives Hall.

On the agenda are a presentation about the American Indian Program by the program's director, Charlotte Heth, and a discussion of the Minority Education Committee's recommendations based on the Cohen-Gates Report, to be led by Committee Chairman Robert Harris.

Voting on the report will not take place till March, when the FCR will be presented final committee recommendations reflecting next week's discussion.

## UAW International to meet with members of Local 2300

Cornell has agreed to consider an early start to negotiations on the United Auto Workers contract that expires June 30, according to John F. Burness, vice president for university relations.

The question came up when the UAW International approached Cornell officials last week to request meeting time with the nearly 900 maintenance and service employees represented by UAW Local 2300, Burness said.

Cornell responded by arranging for the UAW to convene three meetings yesterday, and university departments released employees to attend without loss of pay.

While the question of an early start to negotiations was not resolved immediately, Burness said discussions of the matter "make it clear the UAW International shares our view that, for the university and UAW to have productive, long-term working relations, we need to address our differences in an atmosphere of good faith and at the negotiating table."

He added, "We hope that our recent meeting with leaders of the UAW International will lead to an improved climate for future negotiations at the bargaining table."

Burness said the development had no connection with a hearing on Cornell's labor-relations practices that had been scheduled for Feb. 9 in Albany and was postponed indefinitely by Assemblyman Frank J. Barbaro on Tuesday. The hearing was not discussed during the weekend meeting initiated by the UAW International, he added.

"We assumed that any decision on the hearing would be made by Barbaro without consultation with the university," Burness said.

Barbaro, chairman of the State Assembly's Committee on Labor, called the meeting with Edward Sullivan, chairman of the Committee on Higher Education.

"The decision to call for a legislative hearing was made by Assemblyman Barbaro without consulting university officials," Burness said, adding, "To my knowledge, no university official has spoken with him about the matter since he announced in October 1987 his intention to hold a hearing. As of today, we still have not received any direct communication about the hearing from the Assembly."

"We learned of the date indirectly, when Ithaca Mayor John Gutenberger sent us a copy of the hearing notice. We have not asked for a cancellation, and we continue to prepare for it, confident that we will be able to demonstrate that Cornell is not only a caring institution, but that we pay our employees competitive salaries."

— Sam Segal

## DeWinter appointed director of Cornell Abroad program

Urbain J. "Ben" DeWinter has been appointed director of the Cornell Abroad Program for three years starting this Jan. 1, Larry I. Palmer, vice president for academic programs, has announced.

DeWinter was director of the Cornell in Seville program in 1985, and has been special assistant to the provost with responsibilities for Cornell Abroad for the past year. He succeeds Arch T. Dotson, a professor of government, who had directed the program from its inception in 1985.

According to DeWinter, his office seeks to expand opportunities for Cornell undergraduates to study abroad and to make foreign study an integral part of academic life at Cornell. "Traditionally the largest percentage of students studying abroad has come from the humanities and social sciences," he said. "We are making an effort to reach out to science and technology students as well. The need for professionals who understand other nations and cultures is critical to maintaining our country's competitive edge."

DeWinter called faculty involvement and support in the program critical to its success. Twelve faculty members from different disciplines serve on the Cornell Abroad Faculty Executive Board, and others serve on committees for specific programs and regions. "Faculty are sensitive to the need for an international component of undergraduate education, and their primary focus is to make it possible for Cornell students to pursue academic work abroad that complements their work in Ithaca," he said.

Cornell Abroad currently runs programs at universities in seven countries and has exchange agreements or formal affiliations with 16 foreign institutions. These numbers are growing, DeWinter said. He has just completed an exchange agreement with the Imperial College of Science and Technology and the School of Oriental and African Studies, both in London. He also hopes shortly to announce new programs in Kyoto, Japan; Malang, Indonesia; and Stockholm, Sweden.

### Barton Blotter:

## \$1,000 in cash stolen from wallets

A total of more than \$1,000 in cash was stolen from eight wallets and purses on campus, according to the morning reports of the Department of Public Safety for Jan. 25 through 31.

This included \$659 in cash from a wallet stolen from an office in Day Hall. Other cash thefts were reported in Baker, Warren and Teagle halls and in a fraternity.

Eleven other thefts on campus during the seven-day period brought the overall total of losses in cash and valuables to



Claude Levett

Urbain J. DeWinter

In addition to recruiting students for Cornell programs abroad, DeWinter's office also assists Cornell students who wish to enroll in foreign programs sponsored by other American colleges or universities or to enroll directly in foreign universities. The number of Cornell students from the Ithaca campus studying abroad each year has jumped from 192 in 1985 to approximately 325 this year, DeWinter said.

A member of the faculty in the Department of Romance Studies at Cornell since 1972, DeWinter was director of admissions, then associate dean for admissions, alumni relations and special projects in the College of Arts and Sciences from 1975 to 1986. He is currently an adjunct associate professor of Romance Studies.

— Joe Leeming

## Briefs

■ **Basic course on birds:** The Cornell Laboratory of Ornithology will offer an eight-week, non-credit beginners course on birds from March 16 to May 14, during the height of the spring migrating season. Included are Wednesday night lectures and Saturday field trips to such areas as the Montezuma National Wildlife Refuge and the shores of Lake Ontario. The fee for the lectures only is \$50; for the lectures and field trips, \$100. To register and for more details, contact the Laboratory of Ornithology at 159 Sapsucker Woods Road, Ithaca. The telephone number is 255-5056. The instructor will be Stephen W. Kress, a laboratory associate at the Ornithology Laboratory and a biologist for the National Audubon Society.

■ **Seminars on U.S. publications:** Two two-hour seminars on the organization, use and location of U.S. Government Publications will be conducted by Susan M. Szasz of the Olin Reference Department at 4 p.m. on Feb. 8 and 1 p.m. on Feb. 20 in Room 603 of Olin Library. The seminars are aimed particularly at faculty and students interested in public policy issues. To register or for details, stop by or call the Olin Reference Desk. The telephone number is 255-4144.

■ **Archaeology scholarships:** April 4 is the deadline for filing for Hirsch summer travel scholarships, which are available to about 10 undergraduates, preferably archaeology majors, but also other students with demonstrated interest in archaeology. For details on this and other summer programs, contact the archaeology faculty or Beverly Phillips at the Archaeology Program Office in 265 McGraw Hall.

■ **Breakfast with Rhodes:** Students may sign up for breakfast with President Frank H.T. Rhodes by calling his office at 255-5201. The breakfasts are held from 7:30 to 8:30 a.m. in the Elmhirst Room of Willard Straight Hall. Reservations are made on a first-come, first-served basis. Reservation reminders will be mailed a few days before each scheduled breakfast.

■ **Meals with Morley:** Employees may schedule a breakfast or lunch with Senior Vice President James E. Morley by calling the Office of Human Resources at 255-3621. The breakfasts will be in the Elmhirst Room of Willard Straight Hall between 7:30 and 8:30 a.m. on Feb. 18, April 20 and June 23. The lunches will be from noon to 1 p.m. in a private dining room at Robert Purcell Union on March 14 and May 16. Reservations are on a first-come, first-served basis. Reminders will be mailed to signees a few days before each event.

## Professor-at-large nominations due

Nominations to fill three Andrew D. White professor-at-large positions are due by March 31 in the office of the professor-at-large program at G60e Martha Van Rensselaer Hall. Nominations may be made by individuals or groups.

The program's aim is to bring to campus individuals who have achieved outstanding international distinction in the humanities, the natural or social sciences, or the learned professions.

Professors-at-large serve six-year terms, making periodic visits to campus as part of the program's goal to enrich the intellectual and cultural life at Cornell.

## Alumnus joins slate

Joseph H. Holland of the Class of 1978 has become the fifth candidate for two alumni-elected trustee positions on the university's Board of Trustees.

The other four candidates, who were endorsed earlier by the Cornell Alumni Association Committee on Alumni Trustee Nominations, are Jerome Alpern, '49; C. Richard Jahn, '53; George S. Slocum, '62; and Roger J. Weiss, '61.

Some 125,000 Cornell alumni will cast ballots by mail this spring.

Candidates' petitions had to carry 100 valid alumni signatures and had to reach Alumni House by Jan. 29.

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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.

# Hollywood luring researchers from computer graphics

Computer graphics researchers have not paid enough attention to the huge potential of computer graphics to aid science and engineering, according to Donald Greenberg, head of Cornell's Program of Computer Graphics.

Writing in the February issue of the Association for Computing Machinery's Communications, which was published this week, Greenberg said that researchers have concentrated too much on developing graphics techniques for movies and advertising.

"During the past two decades, too great a proportion of our energies have been directed toward the creation of images to make a flashy presentation," he said. "I believe the (computer graphics) community has been seduced too easily by the glamour and publicity of the entertainment industry.

"Yet scientists are still plotting two-dimensional graphs, doctors are making decisions by looking at two-dimensional x-rays, engineers pore through reams of numerical data, and designers draw two-dimensional plans and elevations of the proposed built environment.

**"The field of computer graphics is suffering from the fact that it is not yet academically recognized as a true discipline. It has not yet been fully accepted as an integral part of the field of computer science, except possible at a few universities . . ."**

— Donald Greenberg

"To me it would be far more important to use these graphics techniques for radiation therapy, petroleum exploration, or the design and construction of earthquake-proof buildings than to apply our energies to the creation of new special effects or advertising."

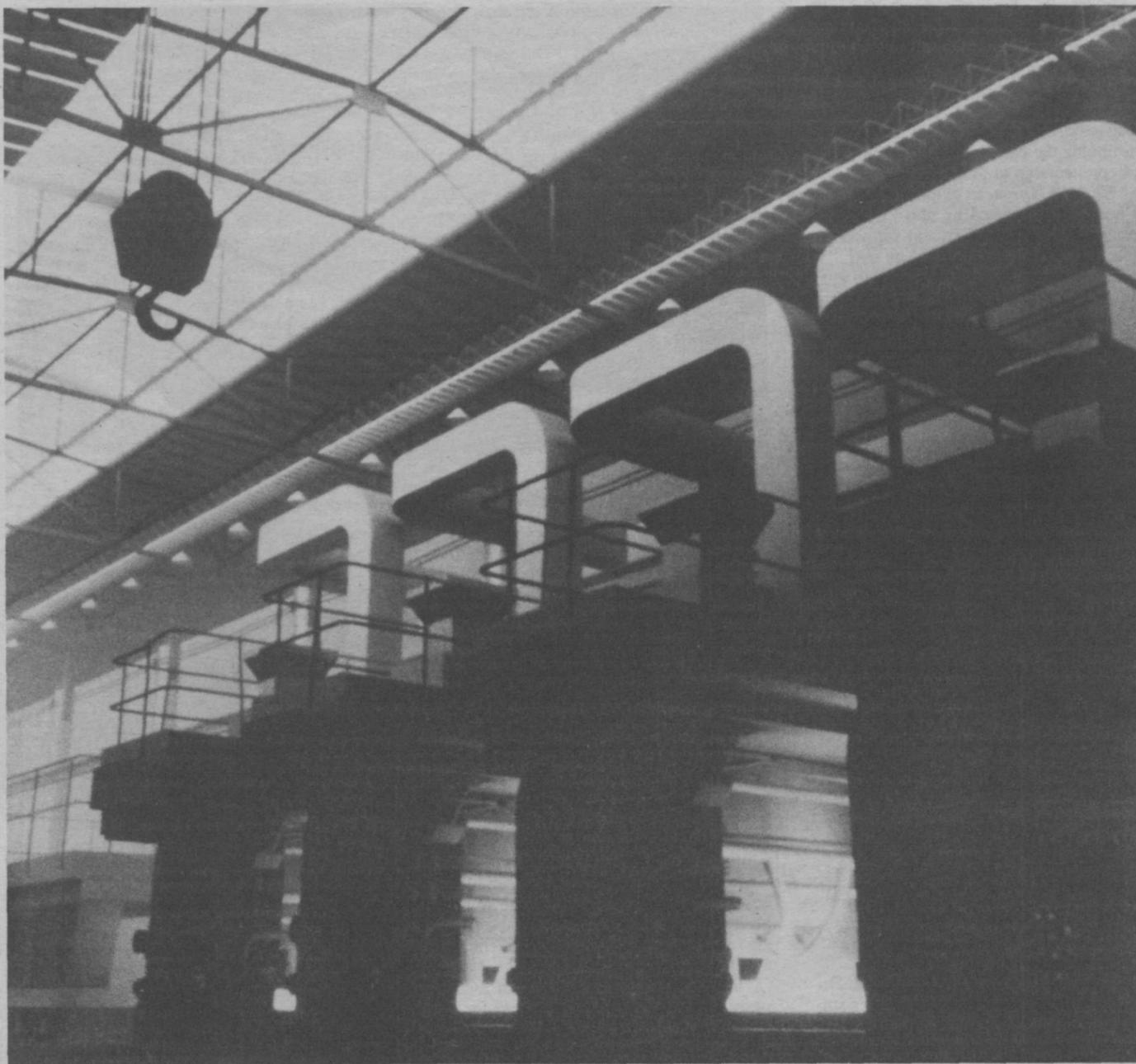
The article was a version of the address Greenberg delivered upon his receipt of the Steven A. Coons Award in computer graphics last July. The award is the highest in computer graphics.

Because scientists and engineers have undervalued computer graphics as a tool, he wrote, computer graphics researchers are not planning sufficiently to take advantage of the powerful new machines that will be available in a few years.

"We in computer graphics have unfortunately been too brainwashed by the incessant questions and inevitable comments: 'Who can ever afford it? We need numeric printout! 2-D is satisfactory! Color! We will never need color!'"

"Recently during a visit to the National Science Foundation supercomputer site at Cornell, I was asked, 'Of what use are the pretty pictures?' Scientists don't need that sophistication."

Greenberg replied that "Faraday, when asked about the utility of his dynamo, responded, 'Of what use is a baby?'"



This computer graphic simulation of a steel mill produced by Stuart Feldman and John Wallace of the Cornell Program of Computer Graphics represents a new extension of the "radiosity" technique of rendering. According to program director Donald Greenberg, researchers are not devoting enough effort to developing techniques to make such realistic scenes.

Greenberg said that the most important efforts in computer graphics should be to simulate how objects really appear and move by accurately modeling the laws of motion and light reflection.

"Today, we are beginning to combine kinematics and dynamics, the inclusion of gravitational effects and Newton's laws of motion, the effects of elasticity . . . And finally the motion and animation are starting to look real. Why? Because we are simulating the true physical behavior," he wrote.

"The same progression is occurring in our modeling of light reflections. The problem is to determine what light reaches a surface, not just that coming directly from light sources, but indirectly transmitted or

reflected from other surfaces . . ."

Despite these advances, however, computer graphics scientists have not paid enough attention to making their pictures realistic, he said.

"Most computer graphics images are pictures that have no real correlation with the actual appearance or with our visual perception and the way we see environments. One might call these images 'realistic abstractions' or 'abstract realism.' But how closely does the picture actually represent the true scene?"

Researchers must develop more powerful methods of creating complex shapes on the computer and better graphics standards for software and hardware, so that software will work on many kinds of computers, he said.

Scientific progress is being hindered, however, by the lack of respect afforded the discipline of computer graphics.

"The field of computer graphics is suffering from the fact that it is not yet academically recognized as a true discipline. It has not yet been fully accepted as an integral part of the field of computer science, except possible at a few universities . . ."

However, computer graphics is, in fact, a field combining many areas of knowledge, said Greenberg. Besides many aspects of computer science and electrical engineering, "computer graphics could also include physics, optics, thermodynamics, perception psychology, color science, and some of the graphic or aesthetic arts," he pointed out.

— Dennis Meredith



Richard Ned Lebow

Claude Level

## Peace Studies Program receives \$1.25 million

Cornell has been awarded a total of \$1.25 million from two foundations for projects in peace studies and international security, according to Richard Ned Lebow, director of the Peace Studies Program and a professor of government.

The grants are \$800,000 from the John D. and Catherine T. MacArthur Foundation and \$450,000 from the Carnegie Corporation, Lebow said.

The Peace Studies Program was founded in 1970 as an interdisciplinary teaching and research effort on issues related to war and peace, arms control and disarmament and international studies. Research efforts by 20 affiliated faculty members from the physical and social sciences and the humanities focus on nuclear deterrence, the economic burden of military spending and other topics.

The grants represented continuing support of the Peace Studies Program and related efforts at Cornell by the MacArthur and Carnegie foundations.

The MacArthur Foundation grant awarded \$500,000 immediately as one of 65 awards in its Program on Peace and International Cooperation. An additional

\$300,000 will be received in 1991. The grant will enable the program to provide more graduate-student fellowships and research support, and to expand its course offerings, Lebow said. Currently, the program offers only one course for undergraduates, but the grant will support development of undergraduate courses by faculty and departments not previously involved in Peace Studies, Lebow said.

The Carnegie grant will support continuation of an ongoing project on international security being led by physics Professor Kurt Gottfried, a member of the Peace Studies Program and a director of the Union of Concerned Scientists. That project has produced a collaborative report and a forthcoming book on "Crisis Stability and Nuclear War" by senior U.S. military officers and scholars at Cornell, Yale, Brookings Institution, the Massachusetts Institute of Technology and Stanford.

Gottfried plans to continue that inter-campus research effort by focusing on broader issues of international security, including studies of European security after the recent U.S.-Soviet arms treaty.

# JGSM course analyzes a dozen alumni entrepreneurs

Unlike other business schools, Cornell's Johnson Graduate School of Management bases every one of its case studies in entrepreneurship on businesses founded by Cornell graduates.

"Our approach is not just the old Ivy League tie," explained David J. BenDaniel, who holds the chaired professorship in entrepreneurship at JGSM.

"We have chosen to eliminate case studies of businesses operated by non-Cornellians because we can ask more and will receive more from our own alumni," he said. "We expect them to be present in class to answer demanding questions from our students about the ways they run their companies, and we even expect them to offer jobs or help finance student ventures."

The professor added, "We can make those tough approaches best when we are dealing with entrepreneurs who graduated from Cornell. The students view them as members of the family and not as outsiders who might inspire more deference than openness.

"Our graduates are loyal, and they consider that being the subject of an accurate case study is an important contribution."

As a venture capitalist, BenDaniel, 56, has helped start a number of businesses himself, and his experience in high-risk ventures tells him that only some of his students will become entrepreneurs on their own. But others may develop as innovators inside established corporations by persuading their employers to develop and market new products or services.

"About half my students are graduates studying for M.B.A.s," BenDaniel said. "Few students ever enter graduate school to become entrepreneurs. If they really were entrepreneurs, they would be out by now making money in their own businesses, not returning to school. They're studying for an M.B.A. to prepare themselves for better-paying jobs in industry or finance rather than going off into risk ventures."

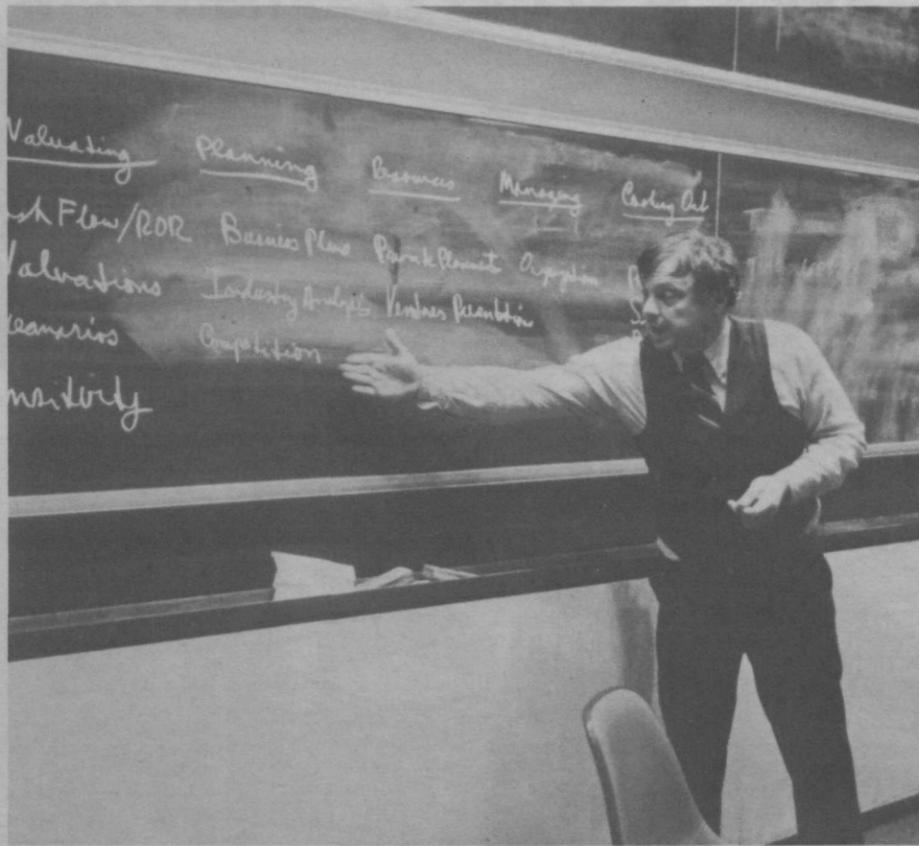
The real potential entrepreneurs BenDaniel sees in his classes are the younger students, the undergraduates.

"They are the ones who are prepared to risk themselves, and some of them come from affluent families who can provide a safety net if their ventures into entrepreneurship fail," he said.

"Some of them have seen the dissatisfaction of their fathers in the corporate world. Their parents have reached their 50s and may be working far below capacity in unchallenging jobs. Security in a large corporation turned out to be empty for many of them.

"But their children have a safety net in the form of family backing, often substantial. Their entrepreneurship comes, you might say, from an anti-establishment feeling, but it is taking an extremely valuable and constructive form."

Many other business schools besides the Johnson School teach entrepreneurship, which BenDaniel says is considered much more respectable academically today than it was in earlier years. "But I know of no other school which probes so deeply in the tradeoffs of capital-risk ventures with the actual risk taker present in class to hear



David J. BenDaniel

students analyze his work and then defend his decisions," BenDaniel said. "It's easier for us because the entrepreneurs we are questioning belong to the Cornell community."

Cornell's course on entrepreneurship is based on more than a dozen case studies of business enterprises, all founded by Cornell graduates. The involved entrepreneur spends a day on the campus.

"Before we select candidates for a case study, we tell them to be prepared for tough discussion of their business methods," the professor said. "They cannot expect to come to Cornell and just hear flattering comments on their enterprises. The invited entrepreneur sits at the back of the room while students discuss his company. Then he comes forward to explain his business decisions."

The class reserves a day for each entrepreneur, and the probing doesn't end in class. A cheese party follows and then the entrepreneur hosts a dinner for about a dozen students "to get into a more personal discussion of ethics, managerial styles and other issues facing an entrepreneur," BenDaniel said.

He's frank with the businessmen and women he invites to class. "I tell them that I encourage my students to ask them for advice and even money to finance their own entrepreneurial projects," he said.

BenDaniel said he believes that the program succeeds for two reasons: "the great loyalty of alumni and Cornell's insularity, which forces visitors to spend at least a full day here."

BenDaniel's faculty chair in entrepreneur-

ship is endowed by Don and Margi Berens. Don Berens' work in developing a series of franchises for Hickory Farms stores constitutes one of the case studies probed by Cornell students.

Berens, 62, one of 10 children of a machine shop foreman, completed two years of civil engineering and one year of economics, all in two years at Cornell, where the Marine Corps sent him for classes accelerated by World War II. He opened, owned and subsequently sold over 100 franchise stores for Fanny Farmer and Hickory Farms.

Other entrepreneurs examined by students this past semester include:

- Gary Parker's decision to leave a small medical supply company and the factors he considered in purchasing Cuddledown of Maine, a mail order company importing, manufacturing and retailing comforters and pillows.

- Stanley Blau's operation of Consolidated Communications Inc., a Westchester County, N.Y., firm dealing in reconditioned telephone equipment. In an interview with Teleconnect magazine of New York City, Blau said he emphasized to Cornell students that "I learned in my earliest days of telephony that what we really sell is service. The responsiveness to the customer is what I see lacking as companies grow, and layers of management are added between product development, marketing, maintenance and the customer."

- The work of D. Robert Yarnall Jr. in Yarway Corp., a Philadelphia manufacturer of steam specialty products, in dealing with conflicts between a parent and subsidiary

company and market resistance to new technologies. "We find little truth to the old adage about the world beating a path to the door of the man who builds a better mousetrap," Yarnall said. "It won't sell itself. Marketing effectiveness is absolutely essential."

- Robin Inwald earned degrees in theater and education and worked as a school psychologist. She developed a 310-question personality inventory test for the New York City Department of Correction. The test was so successful that she incorporated her business activities into Hilson Research, Inc. and developed other tests including one that helps professionals identify adolescent children who are at risk because of suicide, depression, or drug and alcohol problems. Hilson Research's adjusted annual income increased 25 times in six years.

BenDaniel could present himself as a case study.

With a Ph.D. in engineering from Massachusetts Institute of Technology, BenDaniel has served as a visiting fellow and lecturer at the Harvard Business School. In industry, he worked for General Electric Co. as manager of technical ventures, Exxon Corp. as group vice president for advanced energy technology and Textron Inc. as senior vice president for venture capital before joining Cornell's faculty three years ago.

His own forays into entrepreneurship include helping to start businesses in superconductivity, membranes, oil exploration and recovery, educational systems, two-way cable communications, scanners, liquid crystal displays, laser diodes, ferrous die-casting and information storage on optical disks.

BenDaniel's course is the only one in JGSM that enrolls undergraduate students. He tries to keep the ratio at 50-50, but this year's first class attracted undergraduates in droves.

The undergraduates, seen by their professor as the most likely candidates for life as an entrepreneur, come from a variety of majors including engineering, hotel administration, architecture, liberal arts and sciences.

What does BenDaniel see for the somewhat less risk inclined graduate students in his course? "My hope for M.B.A. graduate students is to prepare them for innovative roles inside established corporations where they can develop new products or services and persuade corporate executives to accept them," he said. "Entrepreneurship outside and inside corporations is what our country needs to regain our competitiveness.

"Products are being introduced into the market so rapidly and becoming obsolete so quickly that corporate heads need to listen to younger people.

"Anthropologist Margaret Mead developed a theory that children these days grow up in and are accustomed to a world with constant change much different than what their parents knew. She suggested that the older generation should learn such adaptivity from the young. I believe Mead was correct and that entrepreneurship is really the name the business world gives to this skill."

— Albert E. Kaff

## Japanese consul describes prosperity's new young breed

A visiting Japanese diplomat told a Cornell audience last week that although he finds it difficult to understand young people in his country, he does see some merit in their changing lifestyle, which includes spending more money than did their savings-conscious parents and questioning traditionally long working hours and lifetime employment.

"Basically I think it is a good thing even though it may not maintain the cohesiveness of our society," said Itaru Umezu, Japan's deputy consul general and director of its information service in New York City. "A variety of people in our society will increase our vitality and may benefit Japan."

Umezu spoke on Jan. 29 in Uris Hall to about 50 persons, an extraordinarily large gathering for a brown-bag lunch in the Center for International Studies.

He said at least 31 books have been written in Japan since 1983 to explain what are called the "shinjinrui," or "new human race," defined as Japanese in their 20s who are said to have the most expendable income in the nation and are spending it on modish clothes, automobiles, sports and world travel.

They defy a traditional Japanese pattern of personal savings, estimated by the Far Eastern Economic Review at 16 percent of household income — a percentage surpassed only by Italy among industrial nations — and the highest in the world in absolute terms.

Umezu also said that the 1964 Tokyo Olympics marked a major changing point for Japan. To prepare for the summer games, Tokyo extended its subway system, built new elevated superhighways, and constructed new hotels and high rise buildings.

Japan's industrial and financial growth into the world's second largest economy after the United States is dated from the 1960s, and it is the Japanese born after that decade who are the free-spending shinjinrui.

"The Tokyo Olympics gave confidence to the Japanese people that they could arrange that kind of event and satisfy people all over the world," Umezu said. "I think the same thing will happen for Seoul this year.

"Japanese young people today are showing a changed mentality and behavior pattern," he continued. "The Japanese people have become affluent. They have money to buy things. Housing is a very serious prob-

lem in Japan because of exorbitant land values. So people now can buy anything except a house, and this is having an effect on our young people."

Umezu — who attended high school in Indiana as an exchange student and graduated from the prestigious Tokyo University — traced U.S.-Japan trade problems to the strength of the U.S. economy and, until two years ago, the high value of its dollar.

"The strong U.S. economy, compared with other nations, sucked exports into the United States with little sales to other countries," he said. "America's trade problems are global and are not caused by new trade barriers in Japan. Our trade barriers are less today than when the trade imbalance started."

About one-third of America's \$160 billion trade deficit is with Japan, he said. But the U.S. trade deficit with Western Europe increased by about the same proportion as with Japan from 1980 to 1986, and similar negative trade shifts occurred with Latin America, Asia's newly industrialized nations and Canada, the Japanese spokesman said.

He told his audience that Japan is the

largest buyer of American agricultural products and purchases more from the United States than does the United Kingdom, West Germany and Italy combined.

He mentioned big sales in Japan of Coca-Cola, McDonalds hamburgers, Kentucky Fried Chicken, Schick razor blades, IBM computers and Tokyo Disneyland, franchised from the United States.

He touched on a theme expounded in recent years by American and Japanese observers: that, in some cases, American goods or services do poorly in Japan not because of trade barriers but because they do not match Japanese consumers' needs. Using gestures to indicate a woman's figure, the diplomat said that sales of Barbie dolls were slow in Japan until the dolls were redesigned to look more like Japanese women: blonde hair was replaced by black, blue eyes by brown, voluptuous bosom by flat chest and long legs by short ones.

Umezu's visit to Cornell was arranged by the university's newly named East Asia Program, formerly the China-Japan Program.

— Albert E. Kaff

## A two-year study will evaluate compensation policies

What does a company gain when it increases workers' pay, sales commissions or executive bonuses? The truth is that no one really knows the answer.

"It stunned me that so little research has been done into how compensation policies affect a firm's performance," said Ronald G. Ehrenberg, director of research in the School of Industrial and Labor Relations.

"People who are involved in establishing pay scales and compensation packages for workers, managers and executives rarely have taken time to determine whether their policies improve the work of employees, the profits of a company and the performance of its stock."

Ehrenberg presented the problem to the Alfred P. Sloan Foundation in New York City. The foundation was so impressed that it awarded Cornell a \$200,000 grant for research on compensation policies and firm performance. Sloan funding started this year.

Ehrenberg, the Irving M. Ives Professor of Industrial and Labor Relations, has assembled 25 researchers from several universities and economic organizations to conduct a two-year study into the question: What does a company gain, if anything, by increasing salaries, wages, bonuses and commissions?

"Various theories exist about the effects of compensation policies and why these policies might vary across firms," Ehrenberg wrote in presenting his proposal to the Sloan Foundation. "But there is very little empirical evidence both on the determinants of compensation policies and on whether these policies have desired incentive effects at either the individual or corporate level."

**"If you pay more do you get people who justify the cost? As simple as that question may sound, we really do not know the answer."**

— Ronald G. Ehrenberg

Questions which researchers will explore include:

- Why does hourly, piece-rate and merit pay vary so much within the same industry?
- Do compensation policies affect the performance and behavior of employees?
- How do compensation packages influence a company's profit and stock market valuation?
- Does the salary and bonuses paid to top-level executives contribute to a firm's performance?

"Simply stated, if you pay more do you get people who justify the cost?" Ehrenberg said. "As simple as that question may sound, we really do not know the answer."

To find the answers, Ehrenberg has assembled scholars from Cornell, the University of Michigan, Rutgers University, Harvard University, Michigan State University,

Columbia University, Princeton University, the University of Chicago, the University of California at Berkeley, the University of Rochester, the University of Wisconsin, the University of Pittsburgh and the University of New Orleans.

He's tapped other researchers at the National Bureau of Economic Research (which also is helping fund the study), Wyatt Co., the Federal Reserve Bank of Cleveland, the Hoover Institute and Rand Corp.

They will analyze compensation policies of 300 of Fortune magazine's top 1,000 companies over a 10-year period and study compensation awarded to 2,000 chief executive officers over 11 years. Ehrenberg, a non-golfer because of a bad back, will examine the records of professional golf tournaments.

"In a golf tournament, a one-stroke difference can win the top prize, which may be double the amount awarded to second place," Ehrenberg said. "Factors which

determine tournament results can be measured because we obtain good information on such variables as weather conditions, course difficulties and past results of each player, permitting us to isolate the role of prize money in determining their performance.

"A tournament compensation scheme is based on an individual's performance relative to his competitors, and I will try to determine whether big rewards for winning actually induce golfers to play harder.

"Such a study is important because in many real world situations, we often observe people's compensation as being related to their relative performance such as sales people whose bonuses depend on how well they do relative to each other and corporate executives who compete against each other for promotion."

Other researchers will consider whether incentives offered by the military influence the number and quality of recruits. One study will look into how salary levels affect

turnover of managers, and another will consider whether high wages attract higher quality workers.

Research teams will meet twice for detailed discussions before their papers are published, first in Cambridge, Mass., in November and then at Cornell in the summer of 1989. Cornell's Industrial and Labor Relations School will publish the final research papers in 1990.

The long study was inspired by Ehrenberg and George Milkovich, a professor of industrial and labor relations here. In earlier research, they concluded that various theories on compensation policies have not been proven.

Ehrenberg's chair at Cornell was named for the late Irving M. Ives, a U.S. senator from New York from 1947 to 1959, who helped establish the university's Industrial and Labor Relations School as the first such institution in the United States.

— Albert E. Kaff



Claude Levett

Linda Buttel, an Ecosystems Research Center support specialist, left, and Catheryn Obern, director of international public affairs, accompanied by Buttel's dog Maggie, enjoy a quick ski at Cornell Plantations last week. Obern, who has become an avid cross country skier in the 10 years she has lived here, said she skis "all over the place" but likes Plantations best for a mid-day break. This winter's meager snowfall has left her somewhat disappointed.

## Astronomers investigating pulsars with interstellar lenses

The ability of clouds of ionized gas between the stars to form immense lenses is allowing astronomers to obtain the highest-resolution radio images ever of pulsars — spinning, superdense neutron stars in our galaxy that emit rhythmic flashes of radio waves.

Speaking Jan. 18 at a workshop on "Radio Wave Scattering in the Interstellar Medium" at the Scripps Institute of Oceanography, Cornell astronomer James Cordes outlined the current theory behind the phenomenon that he and Cornell's Alex Wolszczan reported last year.

The astronomers used these lenses, which randomly form and dissipate images over periods of days, to see into the depths of pulsars to better understand how their magnetic fields form the searchlight-like radio beams that sweep the sky, creating the radio pulses.

In last September's *Astrophysical Journal*, Wolszczan and Cordes reported using the 1,000-foot Arecibo radio telescope in Puerto Rico to resolve for the first time the magnetosphere of a pulsar, the region above the surface where the pulsar's intense magnetic fields form the radio beams. They achieved a resolution of the pulsar of less than one-millionth of an arc-second, the equivalent of seeing an amoeba in Los Angeles from New York.

Astronomers usually obtain high-resolution radio images through a technique called Very Long Baseline Interferometry (VLBI) in which they train a number of radio telescopes around the world on the same object at the same time, and combine the data.

The VLBI telescope array is then the equivalent of one gigantic radio telescope the size of the earth.

Because resolution improves as dish size increases, VLBI allows radio images of objects that are hundreds of times finer than any optical telescope could achieve by viewing visible light from the object.

However, Cordes and Wolszczan found that ionized interstellar gas clouds occasionally split the radio image of a pulsar into multiple images. If these images are detected by a single radio telescope, the result is the equivalent of a "super-VLBI" telescope array with antennas about 100 million miles apart.

The separate images represent radio waves that left the pulsar at angles slightly apart from the direct line between the pulsar and earth. However, the interstellar medium refracted these waves back toward earth. By detecting these many refracted images, the radio telescope therefore in effect is viewing the pulsar from widely separated points in space.

In his talk at Scripps, Cordes theorized that the refracted images of the pulsar may be due to shock waves rippling through the interstellar medium, temporarily forming a gargantuan lens to refract the pulsar image as they pass.

Although Cordes said the origin of the lensing structures is far from certain, he is sure that the imaging phenomenon can be used as the basis for far more detailed studies of pulsars than have been done heretofore.

Using the technique, astronomers should be able to routinely obtain images with resolution below one-millionth of an arc-second compared with resolutions of about one-thousandth of an arc-second achieved by usual VLBI techniques.

According to Cordes, this ground-based technique is far superior for pulsar studies than even VLBI done with earth-orbiting antennas, as is planned for the 1990s.

Similar to the multiple pulsar images is the phenomenon of multiple imaging of quasars at the edge of the universe, due to the splitting of the quasar's image by the gravity of an intervening galaxy. However, the multiple radio images of quasars cannot be used as the basis for obtaining superfine radio images because quasars are too big.

Pulsars are the collapsed, spinning rem-

nants of stars that have undergone massive explosions called supernovas. Pulsars are only about 10 kilometers in diameter and are made of matter squeezed by gravity until it consists primarily of neutrons.

A spinning pulsar's magnetic field — about a trillion times that of the earth's — makes the pulsar into a gigantic dynamo, which spews out beams of particles and radio energy from its magnetic poles. The twin beams sweep the sky like the beacons from a lighthouse, creating their characteristic radio pulsing.

The pulsars being studied by Cordes and his colleagues typically emit pulses from one-third second to one second apart. By studying the structure of the pulsars, astronomers hope to gain a better understanding of the physics of these exotic objects.

Pulsars also can be used to probe the interstellar medium — the invisible clouds of hydrogen, helium and other molecules that lie between the stars. By measuring how the interstellar medium disturbs and distorts the pulsar signal, astronomers can infer the existence of magnetic fields or turbulence in the medium. The Cornell researchers' work is supported by the National Science Foundation.

— Dennis Meredith

# CALENDAR

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

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.

Notices should also include the sub-heading of the calendar in which the item should appear.

## FILMS

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

### Thursday, 2/4

"Modern Brides," documentary, South Asia Program, 5 p.m., 310 Uris Library.

"Fire from the Mountain" (1987), directed by Deborah Shaffer, sponsored by CUSLAR, 8 p.m., Anabel Taylor.

"Touch of Evil" (1958), directed by Orson Welles, with Orson Welles, Charlton Heston and Marlene Dietrich, sponsored by the Arts College Pentangle Program, 8 p.m., Uris.

### Friday, 2/5

"Cannes Goods II" (1984), with Joan Collins, Michael Jackson and Leonard Rossiter, 7 p.m., Uris.\*

"Casablanca" (1942), directed by Michael Curtiz, with Humphrey Bogart, Ingrid Bergman and Claude Rains, 8 p.m., Anabel Taylor.\*

"Tough Guys Don't Dance" (1987), directed by Norman Mailer, with Ryan O'Neal, Isabella Rossellini and Wings Hauser, 9:30 p.m., Uris.\*

"Chuck Berry Hail! Hail! Rock N'Roll" (1987), directed by Taylor Hackford, with Eric Clapton, Robert Cray and Etta James, midnight, Uris.\*

### Saturday, 2/6

"Cannes Goods II," midnight, Uris.\*

"Casablanca," 8 p.m., Anabel Taylor.\*

"Tough Guys Don't Dance," 7 p.m., Uris.\*

"Chuck Berry Hail! Hail! Rock N'Roll," 9:20 p.m., Uris.\*

### Sunday, 2/7

Expanding Cinema will present highlights of the 13th annual Global Village Documentary Festival with films "Anger," directed by Maxi Cohen, and "Ganapati: Spirit in the Bush," directed by Dan Reeves, (1986), sponsored by the Johnson Museum and CCPA, 2 p.m., Johnson Museum Lecture Room.

"The Neverending Story" (1983), directed by Wolfgang Petersen, with Noah Hathaway,

Barret Oliver and Tami Stronach, co-sponsored by the Ithaca Youth Bureau, 2 p.m., Uris.\*

"Chuck Berry Hail! Hail! Rock N'Roll," 8 p.m., Uris.\*

### Monday, 2/8

"Cabaret" (1972), directed by Bob Fosse, with Liza Minelli, Joel Grey and Michael York, 8 p.m., Uris.\*

### Tuesday, 2/9

"Bordertown" (1935), directed by Archie Mayo, with Paul Muni and Bette Davis, sponsored by the Romance Studies Department, 4:30 p.m., Uris.

"Vera, The Story of a Woman Longing to be a Man" (1987), directed by Sergio Toledo, with Ana Beatriz Nogueira and Paul Leiner, co-sponsored by CUSLAR, 8 p.m., Uris.\*

### Wednesday, 2/10

"Ei ja nai ka" (1982), directed by Shohei Imamura, sponsored by the China-Japan Program, 4:30 p.m., Uris.

"The Memory of Justice" (1976), directed by Marcel Ophuls, co-sponsored by the Law and Society Program, 8 p.m., Uris.\*

## LECTURES

### Africana Studies and Research Center

"The African American Experience and the U.S. Constitution," Derrick A. Bell Jr., law, Harvard University, Feb. 8, 4:30 p.m., Africana Center, 310 Triphammer Road. This lecture is part of the Black History Month celebration.

### Agricultural Engineering

"Kinetic Phase Separation in Thermophilic Digestion of Sorghum," Donna E.F. Phillips, M.S. candidate, Feb. 4, 12:30 p.m., 205 Riley-Robb Hall.

### Campus Club

"Recent Trends in Experimental Cinema," Richard Herskowitz, director, Cornell Cinema, Feb. 4, 10:15 a.m., Johnson Museum.

"My Art and Chinese Painting," Muli Tang, visiting professor and artist-in-residence,

including a slide presentation, Feb. 11, 10:15 a.m., Johnson Museum.

### Music

A lecture by Poul Ruders, a Danish composer from Copenhagen who will introduce his works, Feb. 4, 4 p.m., 116 Lincoln Hall.

### Poetry

Poet Don Byrd will give a reading of his work on Feb. 4, 4:30 p.m., Temple of Zeus, Goldwin Smith Hall. Byrd is the author of three poetry books "Aesop's Garden," "The Technics of Travel" and "The Great Dimestore Centennial" and a critical work on Charles Olson's poetry. He is an associate professor of English at SUNY Albany.

### Society for the Humanities

"Representations of Kingship," a symposium, Peter Burke, fellow, Emmanuel College and lecturer in history, Cambridge University, England, Feb. 5, 2-4 p.m., Guerlac Room, A.D. White House, followed by a panel with James Boon, Department of Anthropology; Roger Chartier, EHESS, Paris and Einaudi Professor at Cornell; and Steven Kaplan, Department of History.

### University Lectures

"Historical Narrative: Revival or Regeneration?" Peter Burke, University of Cambridge, Feb. 4, 4:30 p.m., Hollis E. Cornell Auditorium, Goldwin Smith Hall.

"Classical Greeks, Byzantines, Modern Greeks: Recent Scholarship on Continuity and Discontinuity of Greek Culture," Speros Vryonis Jr., University of California, Los Angeles, Feb. 8, 4:30 p.m., Hollis Cornell Auditorium, Goldwin Smith Hall. Co-sponsored by the Hellenic Student Association, the Cyprus Student Association and the International Affairs Group.

### Western Societies Program

"Frenchness in the History of the Book: From a History of Publishing to a History of Reading," Roger Chartier, Luigi Einaudi Professor of European History and International History, Feb. 9, 4:30 p.m., Guerlac Room, A.D. White House.

## MUSIC

### Bailey Hall Series

Andras Schiff will perform works by Schubert, Janacek and Beethoven for the final recital of the 1987-88 "Grand Pianist Series," Feb. 8, 8:15 p.m., Bailey Hall. Tickets are on sale at the Lincoln Hall ticket office, Monday-Friday, 9 a.m.-1 p.m. or by calling 255-5144.

### Bound for Glory

Jeff Wilkinson, Ann Arbor songwriter, Feb. 7. Bound for Glory presents three live sets, at 8:30, 9:30 and 10:30 p.m., every Sunday at the Commons Coffeehouse, Anabel Taylor Hall. Admission is free. The show can be heard live from 8 to 11 p.m. on WVBR-FM93.

### Department of Music

The Cornell Contemporary Ensemble, with Danish composer Poul Ruders introducing his own work, including the U.S. premiere of "Cembal d'Amore," with Jonathan Shames, piano, and Joyce Lindorff, harpsichord, Feb. 4, 8:15 p.m., Barnes Hall Auditorium. In addition to works by Ruders, the ensemble will play "Six Pieces" by Hans Abrahamsen.

Trevor Stephenson, will give a piano recital performing "Prelude and Fugue in E-flat Major" by J.S. Bach; "Sonata in G Minor, K. 426" and "Sonata in G Major, K.427" by D. Scarlatti; and works by Debussy and Chopin, Feb. 11, 8:15 p.m., Barnes Hall Auditorium. Stephenson, a doctoral candidate, has performed widely in the eastern and midwestern United States, and has participated internationally at competitions, conferences and festivals.

## DANCE

### Cornell Folkdancers

Meeting to discuss the international Winter Ball and other business, Feb. 6, 7 p.m., North Room, Willard Straight Hall; instruction and requests, 7:30-10 p.m.

### Dance Company of Gambia

"A Touch of Africa," an evening of drama, dance and song performed by the National Cultural Theatre and Dance Company of Gambia, Feb. 5, 8 p.m., Bailey Hall. Presented by the Third World Student Program Board in celebration of Black History Month. Tickets are available at Willard Straight Hall, Rebop Records, Logos Bookstore and Ithaca College Campus Center. Admission is \$6.

### Israeli Folkdancing

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

## EXHIBITS

### Hartell Gallery

"The Inhabited Landscape," recent works by designers emphasizing the creation of habitable places in the landscape, on view through Feb. 10, Hartell Gallery, Sibley Hall (College of Architecture, Art and Planning).

### Johnson Art Museum

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

"Stories from China's Past: Han Dynasty Pictorial Tomb Reliefs and Related Objects from Sichuan People's Republic of China," more than 100 archeological treasures, including tomb reliefs, sculptural figures, an unusual bronze "money tree," rubbings and a spectacular reconstructed tomb model, on view through March 13. The exhibition offers a rare glimpse of the regional art and culture of the Han Dynasty (206 B.C. -A.D. 220).

"The Year of the Dragon: A Special Celebration" will offer an introduction to the art, culture and traditions of the Han Dynasty, Feb. 6, 10:30 a.m.-4 p.m. Storytelling, dance, films, workshops, a calligraphy demonstration, food tasting and a tour of the exhibition are among the activities planned in celebration of the Chinese New Year. These events are free and open to guests of all ages. For more information call the Education Department, 255-6464.



Chinese dancer Yan Mui will perform at the Johnson Museum on Feb. 6 from 11:30 a.m.-noon, 2:15-2:45 p.m. and 3:15-3:45 p.m. in conjunction with the exhibition "Stories from China's Past."



Peter Schaal

Pianist Andras Schiff will give the final recital in the "Grand Pianist Series" Feb. 8 at 8:15 p.m. in Barnes Hall. For ticket information, call 255-5144.

## RELIGION

### Sage Chapel

Jerry Feist, assistant dean of students, will be the speaker at the Sage Chapel interfaith services Feb. 7 beginning at 11 a.m. His topic will be "Living in Oz."

### Catholic

Mass: Every Saturday, 5 p.m., every Sunday, 9:30 and 11 a.m., and 5 p.m., Anabel Taylor Auditorium.

Daily Masses Monday through Friday, 12:20 p.m., Anabel Taylor Chapel.

### Christian Science

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

### Episcopal (Anglican)

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

### Friends (Quakers)

Sunday, 10 a.m., adult discussion; 11 a.m. meeting for worship, Edwards Room, Anabel Taylor Hall.

### Jewish

Morning Minyan: Young Israel House, 106 West Avenue. Call 272-5810.

Reform Services: Friday evenings 5:30 p.m., Anabel Taylor Chapel.

Conservative/Egalitarian Services: Friday 5:30 p.m., Saturday 9:45 a.m., Anabel Taylor Hall Founders Room.

Orthodox Shabbat Services: Friday evenings, Young Israel House, 106 West Avenue. Call 272-5810. Saturday, 9:15 a.m., Anabel Taylor Edwards Room.

### Korean Church

Every Sunday, 2:30 p.m. Anabel Taylor Hall.

### 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.

Baptist Campus Ministry (SBC): Every Tuesday, 7:30 p.m., Anabel Taylor Chapel.

### Zen Buddhism

Zazen meditation: Tuesdays at 7 p.m., Edwards Room, Anabel Taylor Hall. Every Thursday 5:10 p.m., Anabel Taylor Chapel. For more information or to arrange beginner's instruction, call Ian Dobson at 277-4364.

## SEMINARS

### Agronomy

"Introducing Peanuts to Ontario Agriculture," J.W. Tanner, Dept. of Crop Science, University of Guelph, Feb. 9, 4 p.m., 135 Emerson Hall.

### Applied Mathematics

"The Theory of Moments in Linear Algebra," Gene H. Golub, Stanford University, Feb. 5, 4 p.m., 322 Sage Hall.

### Astronomy and Space Sciences

"Atomic and Plasma Processes in the Early Solar System: Where has all the Angular Momentum Gone?" William Newman, Feb. 11, 4:30 p.m., 105 Space Sciences.

### Chemical Engineering

"Phase Transfer Catalyzed Reactions," Harvey Palmer, Engineering and Applied Science, University of Rochester, Feb. 9, 4:15 p.m., 145 Olin Hall.

### Chemistry

"Local Modes and Intramolecular Dynamics," Mark Child, Oxford University, Feb. 4, 4:40 p.m., 119 Baker Laboratory.

"X-Ray Photoelectron Spectroscopy (XPS): A Powerful Tool for the Study of Organometallic Compounds and Reactions," Paul Gassman, University of Minnesota, Feb. 8, 4:40 p.m., 119 Baker Laboratory.

### Computer Services

"Academic Computing at Cornell: Where Are We Going?" Agelia Velleman, academic computing, Cornell, Feb. 11, 12:20 p.m., 100 Caldwell Hall.

### Ecology & Systematics

"On the Flight of Birds," Farish A. Jenkins Jr., Museum of Comparative Zoology, Harvard University, Feb. 10, 4:30 p.m., Morison Seminar Room, A106 Corson/Mudd.

### Genetics and Development

"Ribosomal Genes of Yeast and their Regulation," Jonathan Warner, cell biology and biochemistry, Albert Einstein College of Medicine, Feb. 8, 4 p.m., 135 Emerson Hall.

### History and Philosophy of Science and Technology

"How to Hide Your Institutions: Myths of 20th Century Science Writing," Bruce Lewenstein, communications, Feb. 10, 4:30 p.m., 165 McGraw Hall.

### International and Community Nutrition

"Women, Food and Power," Joan Gussow, Dept. of Nutrition, Teachers College, Columbia University, Feb. 4, 12:20 p.m., 345 Warren Hall.

### Mechanical and Aerospace Engineering

"Critical Stability of Deep Fluid Heated From Below," T. de Boer, Feb. 9, 1 p.m., 282 Grumman Hall.

### Microbiology

"Human Monoclonal Antibodies Against *Pseudomonas aeruginosa* LPS; Potential Therapeutic Agents," Han J. Zweerink, Merck Sharpe and Dohme Research Labs, Rahway, N.J., Feb. 4, 4:30 p.m., 124 Stocking Hall.

"Genetic and Molecular Analysis of Antibiotic Production in *Micromonospora*," David Rothstein, Lederle Laboratories, Feb. 11, 4:30 p.m., 124 Stocking Hall.

### Ornithology

"A Bird's Eye View of Avian Vision," Jerry Waldvogel, Section of Neurobiology and Behavior, Feb. 8, 7:45 p.m., Laboratory of Ornithology, 159 Sapsucker Woods Road.

### Peace Studies

"The Many Faces of Political Violence in Peru," Billie-Jean Isbell, director, Latin American Studies Program, Feb. 4, 12:15 p.m., G-08 A Uris Hall.

### Plant Pathology

"How Entomopathogenic Fungi Infect Their Host," Ray St. Leger, Boyce Thompson Institute, Feb. 9, 4:30 p.m., 404 Plant Science.

### Poultry Biology

"Salmonella *Enteritidis* and Eggs," Robert Baker, poultry and avian sciences, Feb. 4, 4:30 p.m., 300 Rice Hall.

### Psychology

"The Evolution of Sensory-Perceptual Systems in Mammals," Jon H. Kaas, Vanderbilt University, Feb. 5, 3:30 p.m., 202 Uris Hall.

### Remote Sensing

"Assessing Plant Status with Laser-Induced Fluorescence," James E. McMurtrey, Agricultural Research Service, U.S. Dept. of Agriculture, Beltsville, Md., Feb. 10, 4:30 p.m., 110 Hollister Hall. Co-sponsored by Civil and Environmental Engineering and Cornell Laboratory for Environmental Applications of Remote Sensing (CLEARS).

### Statistics

"A General Approach to Model Comparisons Using Average Likelihood," Murray Aitkin, visiting scholar, Educational Testing Service, Princeton, NJ, Feb. 10, 3:30 p.m., 100 Caldwell Hall.

### Textiles and Apparel

"Pesticide Protective Clothing," Marjorie Norton, Cornell, Feb. 9, 12:20 p.m., 213 Martha Van Rensselaer Hall.

### Vegetable Crops

"Supporting Potato and Sweet Potato Research in China," Peter Vander Zaag, Feb. 11, 4:30 p.m., 404 Plant Science.

## THEATRE

### Department of Theatre Arts

"Cinders," a drama by exiled Polish playwright Janusz Glowacki, Feb. 11, 12, 13, 18, 19, 20 at 8 p.m. and Feb. 14 matinee at 2:30 p.m., Willard Straight Theatre. The inmates of a girls' reformatory in Poland enact the fairy tale "Cinderella" for a visiting film crew, with bitter consequences. The play is directed by David Feldshuh. Call the Theatre Cornell Box Office at 255-5165 for ticket and charge information.

Glowacki's banned novel "Give Us This Day," which is about the birth of Solidarity, became an underground bestseller in Poland. He will attend the opening-night performance of "Cinders" here and will lecture at noon on Feb. 12 in Drummond Studio.

## MISC

### Hebrew Speaking Club

Hebrew Speaking Club meets Tuesdays, 8:15-9:30 p.m., G-34 Anabel Taylor Hall.

### Intramural Cross Country Skiing

Deadline on entries is Feb. 9, 4 p.m. in the Intramural Office, Helen Newman Hall. Four to enter; two must finish to score as a team. Equal number of men and women to enter. Entry fee is \$5 per team.

### Mann Library Emergency Book Sale

Albert R. Mann Library will hold an emergency book sale, Feb. 4, 9 a.m.-4 p.m., and Feb. 5, 9 a.m.-3 p.m., in the South Reading Room, Mann Library. Bid items: low, low prices.

### Personal Growth Workshop

New series beginning the week of Feb. 8 will include assertiveness, building self-esteem, building satisfying relationships, stress management, women, food and self-esteem, lesbian/bisexual support group for women, general personal growth, gay/bisexual mens' support group, Asian-American concerns discussion group, graduate students support group, and the art of parenting.

Groups are free and confidential and open to all members of the Cornell community. Sign-ups begin Jan. 27. For more information, call 255-3608 or stop by 103 Barnes Hall.

### Olin Library Research Seminars

General research seminars last about two hours for faculty and graduate students covering Olin's Union Card Catalogs, COMPASS (Computer Assisted Search Service), subject search strategies, reference materials, interlibrary services, and RLIN (Research Libraries Information Network). Offered today at 9 a.m., Feb. 10 at 1 p.m. and Feb. 22 at 7 p.m. To register or for more information, stop by the Olin Reference Desk or call 255-4144.

### Equestrian Program

Spring activities resume Feb. 8 at the new facility off Pine Tree Road. All levels of hunt seat instruction are offered to all members of the Cornell and Ithaca communities. Registration will be held 4:30-5:30 p.m. on Feb. 4 and 5 at the Oxley Polo Arena. For more information, call 255-3625.





"The Black Man and The Seminole," a watercolor by Jerry Pinkney.

## Museum to show illustrator's work

"Jerry Pinkney: Illustrator" opens at the Johnson Museum Feb. 13 as part of Cornell's Black History Month celebration.

The exhibition will be on view Feb. 13 through March 20. Organized by Benjamin Peterson, curator at the Massachusetts College of Art and traveling under the auspices of the Museum of the National Center of Afro-American Artists, the show explores the artistic development of a highly respected and successful black artist.

## 'Cinders' to open Theatre Cornell's spring semester

Theatre Cornell begins its spring semester with the regional premiere of "Cinders" by exiled Polish playwright Janusz Glowacki.

The play opens at 8 p.m. on Feb. 11 in the Willard Straight Theater, and will run from Feb. 11-14 and 18-20. All performances are at 8 p.m. except the matinee at 2:30 p.m. on Feb. 14.

"Cinders" is a look at modern day Poland through a grim version of the popular fairy tale, "Cinderella." The setting is a girl's reform school near Warsaw where an ambitious director documents the girls' production of Cinderella in hopes of presenting it at a West German film festival. But in this world of modern day Poland, where nothing can be taken at face value and words have peculiar meanings, "we have nothing to hide" really means "we have everything to hide."

Glowacki is the author of six plays, 10 books, 20 radio plays and four screenplays. His play "Hunting Cockroaches" was performed at the Manhattan Theatre Club last year. "Give Us This Day," his novel about the birth of Solidarity, was banned by the Polish censor but became an underground bestseller.

Glowacki, who will be in attendance on opening night, will present a lecture on Feb. 12 at noon in the Drummond Studio. The lecture is free and open to the public but seating is limited.

Tickets for "Cinders" are available at Theatre Cornell's Box Office at the back door of Willard Straight Hall or by calling 255-5165, 12:30-5:30 p.m., Monday-Saturday. Tickets are \$5.50 for the general public and \$4.50 for Senior Citizens and students. Special discounts are available for groups of 15 or more theatre-goers. Please be advised that "Cinders" contains strong language.



Theatre Cornell will open the semester next Thursday with Janusz Glowacki's "Cinders." Members of the cast, from left, standing, are: David Gottlieb, who plays the deputy; Antoinette LaVecchia, the fairy godmother; Douglas Simes, the director; Kate Levy, Cinderella; and, kneeling, Maria Porter, the prince.

## Forest expert named chairman of department

James P. Lassoie, associate professor of forest science, has been appointed chairman of the Department of Natural Resources in the College of Agriculture and Life Sciences through Dec. 31, 1990. He succeeded Ray T. Oglesby, who has returned to teaching and research after five years as the department chairman.

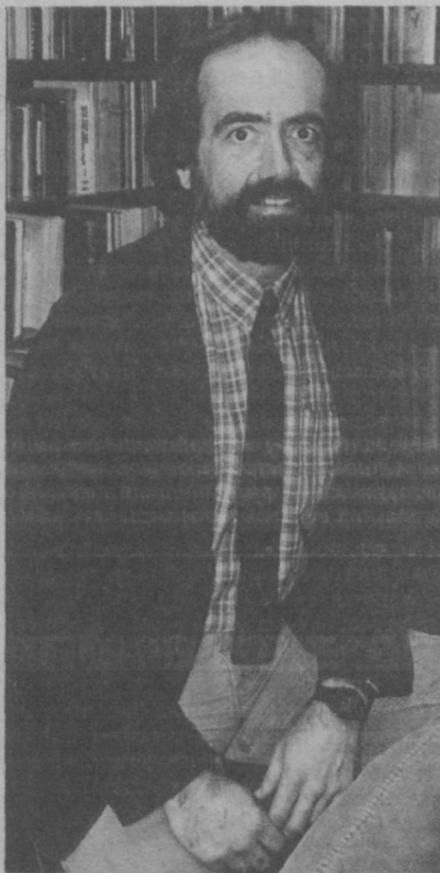
A member of the Cornell faculty since 1976, Lassoie is a specialist in forest tree physiology and non-industrial forest management. He is working with scientists at the Boyce Thompson Institute for Plant Research at Cornell on a major study assessing the impact of acid rain on forest trees.

Lassoie's research interests also include the physiological basis for sap production and sugar yield from sugar maple trees. He has a long-term research project at Cornell's Uihlein Sugar Maple Research and Extension Field Station in Lake Placid, N.Y. In addition, he recently initiated the Cornell Agroforestry Study Group to address problems related to the role of trees in the agricultural systems of developing countries and rural America.

He has served as Cornell Cooperative Extension forester for New York State for the past 12 years and will continue to do so. For the past two years, he has served as department leader for Cornell Cooperative Extension programs, coordinating numerous programs in forestry, fisheries and wildlife.

In addition, he has been responsible for the administration of the federally funded Renewable Resources Extension Program, which is aimed at promoting better management of private, non-industrial woodlands in the state. This program is conducted in cooperation with the State University of New York College of Environmental Science and Forestry in Syracuse and the New York State Department of Environmental Conservation.

Lassoie explained that students in natural resources study "the systems that yield our renewable natural resources such as water, forests, fish and wildlife. They also learn the scientific and ethical basis for the protection



James P. Lassoie

and management of these resources. Since students need to understand the fundamental functions of both natural systems and human organizations and institutions, the curriculum constitutes a liberal education with an emphasis on its applications to natural resources management."

Areas of specialization are aquatic science, fishery science, forest science, wildlife science, resource policy and planning, and ecotoxicology. The last area deals with the effect of toxic chemicals and the stress these chemicals cause on natural resources. The department currently has 165 undergraduate students and 45 graduate students.

A native of Tacoma, Wash., Lassoie received a bachelor of science degree in 1968 and a doctoral degree in 1975 from the College of Forest Resources at the University of Washington in Seattle, where he spent a sabbatical leave in 1984.

## Four receive Sea Grant funding

Four faculty members have been awarded \$375,000 in grants from the New York Sea Grant Institute in support of research on the state's and nation's coastal resources.

Jon Clardy, Department of Chemistry, will receive \$150,000 for a two-year investigation into the structure and synthesis of chemical compounds from marine organisms. Such substances can be useful in a range of applications and products, including pharmaceuticals.

Barbara Knuth, Department of Natural Resources, will investigate anglers' and customers' perception of risk in consuming chemically contaminated fish from Lake Ontario and the communication of such risk by resource agencies. Knuth will receive \$38,000 in support over the next two years.

Charles Krueger, Department of Natural Resources, was awarded a 3-year grant of \$175,000 to compare the reproductive success of hatchery lake trout strains in Lake Ontario. The study is considered critical in

developing and managing a naturally, self-sustaining stock of lake trout in the Great Lakes.

Thomas Litwin, Laboratory of Ornithology, and director of Cornell's Seatuck Research Program on Long Island, will receive \$12,000 in 1988 for a project that will demonstrate an enhanced open-water marsh management approach for the state's saltwater marsh areas.

The four join six other Cornell faculty currently receiving research or extension project support from Sea Grant.

The New York Sea Grant Institute is a consortium of the State University of New York and Cornell and constitutes the State's Sea Grant College. The institute receives federal, state and private funds to administer research, education and extension programs on marine and Great Lakes resources. The institute's central office is on the State University campus at Stony Brook.

## Cornell Cooperative Extension to hold livestock symposium

A statewide symposium to help livestock producers in New York State become more competitive in raising beef, swine and sheep will be held at the Syracuse Sheraton Inn Feb. 24 and 25.

The New York Livestock Symposium will focus on business management, according to the symposium chairman, Danny G. Fox, a professor of animal science and a beef specialist in the College of Agriculture and Life Sciences. The sponsor is Cornell Cooperative Extension.

A highlight of the program will be a talk at 1 p.m. on Feb. 25 by Donald Butcher, commissioner of the New York State Department Agriculture and Markets, who will discuss the state's programs to support New York's livestock industry.

The symposium will begin at 10 a.m. on Feb. 24 with talks by Cornell specialists on extension programs to boost the sheep, swine, beef cattle and meat industries. Also featured will be a talk on "Prescriptions for Carcasses to Meet the Consumer's Demand."

The afternoon program will cover man-

agement programs for beef, swine and sheep industries. Topics include:

- Controlling production costs to achieve profitable beef cow-calf operations.
- Characteristics of feedlot enterprises in New York State with potential for economic success.
- Bull test, performance testing, pasture management systems, computer software and tele-marketing of feeder cattle to help beef producers maximize profitability.
- New York State's swine industry
- Impact of new technology on future swine enterprises.
- The National Sheep Improvement Program, a new sheep production records system.
- Creating demand for lamb.
- New efficient lamb production systems.

The Feb. 25 morning session will feature presentations on livestock price cycles and risk, futures and options, and how to establish and manage a hedge against risk. These talks will be followed by a panel discussion on risk management.

# Gambian dancers to join Black History celebration here

Tribal dancers from Gambia and the Thompson Community Singers from Chicago will be among those contributing to the annual celebration of black culture at Cornell this month.

Another feature of the Black History Month celebration will be a lecture on "The African American Experience and the U.S. Constitution" by Derrick A. Bell Jr., professor of law at Harvard University. The lecture will be in the Hoyt W. Fuller Room of the Africana Studies and Research Center at 310 Triphammer Road at 4:30 p.m. on Feb. 8.

The author of several books including "Race, Racism and American Law," Bell was named "1985 Teacher of the Year," by the Society of American Law Schools.

The 20-member National Cultural Theatre and Dance Company of Gambia will perform at 8 p.m. Feb. 5 at Bailey Hall.



Derrick A. Bell Jr.

Michael Quan

Composed of artists from numerous Gambian tribes, the group displays Gambian culture through "talking drums", ancient musical instruments, dancing and singing.

The Thompson singers will give a concert at 8 p.m., Feb. 12, in Bailey Hall, under the direction of the Rev. Milton Brunson. The founder and pastor of the Christ Tabernacle Baptist Church in Chicago, Brunson organized the nationally acclaimed choir in 1948. The choir will be featured in the Twelfth Annual Festival of Black Gospel at Cornell Feb. 12-14.

In addition to the Thompson singers, eight gospel choirs from throughout the Northeast will give a free mass concert at 7 p.m. Feb. 13 in Bailey Hall.

The public is invited to attend a gospel choir workshop from 11 a.m. to 3 p.m. on Feb. 13 in Bailey Hall. The workshop with some 15 gospel choirs present will be under the direction of Larry Simpson, choir director and organist of the All Saints Home Church of God in Endicott.

Local area choirs will also take part in the 11 a.m. Sunday Convocation Service Feb. 14 in Sage Chapel.

The Rev. Wyatt Tee Walker, senior minister of the Canaan Baptist Church of God in New York City, and author of six books and more than 100 articles, will give the convocation talk.

Tickets at \$6 each for the Bailey Hall performances of the Gambian group and the Thompson Singers are available at the Willard Straight Hall ticket hall, the Ithaca College Campus Center, and Rebob Records and Logos Bookstore in Ithaca, and various student union centers on campus.

Also, as part of the celebration, there will be an exhibit of illustrations by Jerry Pinkney at the Herbert F. Johnson Museum of Art Feb. 13 through March 20. Pinkney, whose widely acclaimed work, includes a nine-stamp series on "Black Heritage" for U.S. Postal Service. He teaches at the University of Delaware.



The National Cultural Theatre and Dance Company of Gambia will perform at 8 p.m. on Feb. 5 in Bailey Hall as part of Cornell's celebration of Black History Month.

## Gates *Continued from page 1*

this year — which he said was unique in the Ivy League and rare in the United States — and that Cornell was aggressively seeking more minority-group graduate students in literature.

He asserted that Cornell could not be surpassed as a place for his work today: "First of all, Wole Soyinka, the only black Nobel laureate in literature, again will be my colleague here. The graduate students are among the best anywhere; and among my colleagues there is a consensus that any properly trained Ph.D. candidate should be exposed to Afro-American literature. This is an extraordinary attitude in any literature department. Things that would be battles elsewhere are already resolved at Cornell."

Gates emphasized that he is interested not only in black American writings but also in African literature. His research plans confirm this. He said Cornell will resume publication next fall of "Transition," an interdisciplinary, pan-African journal formerly published by Africa's first Nobel laureate in literature, Soyinka.

**Cornell has "one of the strongest centers for black studies, considered by many people to be number one in the country right now."**

— Henry Louis Gates Jr.

Soyinka will be here starting next year as the Goldwin Smith Professor of Africana Studies and Theater. Gates said another planned project is resuming work on the Encyclopedia Africana, which DuBois was working on in 1963, when he died.

Such vast subjects don't daunt Gates. In process are the "Black Periodical Literature Project," which will make available tens of thousands of poems, fiction pieces and other Afro-American work written between 1827 and 1940. He also is working with Randal Burkett of Harvard University on what will be the largest file anywhere of black American biographies, some 75,000 subjects collected from 300 black biographical dictionaries.

According to English Department Chairman Dorothy Merman, Gates' works "change the corpus of the literature" by discovering documents and creating texts never

before available. She said his Shomburg Library of Nineteenth-Century Black Women Writers will be used at colleges throughout the country.

Merman shares Gates' optimism about the future, saying "this can be the place to study Afro-American literature."

She noted that the department has just hired a young woman whose Ph.D. dissertation is on slave narrative, that they hope soon to recruit another Africanist, and that they are working with the Romance Studies Department to develop a series of minority-literature courses that would include Chicano and Caribbean writings. She said that Cornell also hopes to bring onto campus a specialist in Africa-rooted literature written in French. Gates is a specialist in such literature written in English.

Gates sees Merman's plans as another part of the promising personnel picture, which already includes the teaching of African and Caribbean literature studies by Anne Adams, of Afro-American writing by poet Kenneth McClane, and of African philosophy and literature by Anthony Appiah, as well as the links with the Africana Studies and Research Center headed by Robert L. Harris Jr.

"The establishment of this chair and naming Professor Gates as its first incumbent is well-deserved recognition of his stature in the field of African and African-American letters," Harris commented. "Professor Gates has established a reputation as the leading scholar of black literary history and theory."

Gates grew up in Piedmont, W.Va., got a B.A. degree in history from Yale, then a Ph.D. degree in English from Cambridge University, while also working for Time magazine as a London correspondent.

After teaching at Yale, he came to Cornell in January 1985; he has held a joint appointment in English, comparative literature and Africana studies. Although he has not learned to love Ithaca's weather, he says the physical setting looks exactly like his hometown and that it's a nice place to raise his two young daughters.

He said his one regret in these buoyant times is that his mother died just before his election to the W.E.B. DuBois professorship. The honor, though, has been savored by his father, who shares a house near campus with Gates, his wife and daughters.

— Sam Segal

## W.E.B. DuBois

William Edward Burghardt DuBois, born 1868, earned a Ph.D. from Harvard University in 1895 — the first black American to earn a doctorate — and wrote the first monograph in the Harvard Historical Series, "The Suppression of the African Slave-trade to America." This was "The Philadelphia Negro," which made him, in the eyes of many scholars, the father of American sociology.

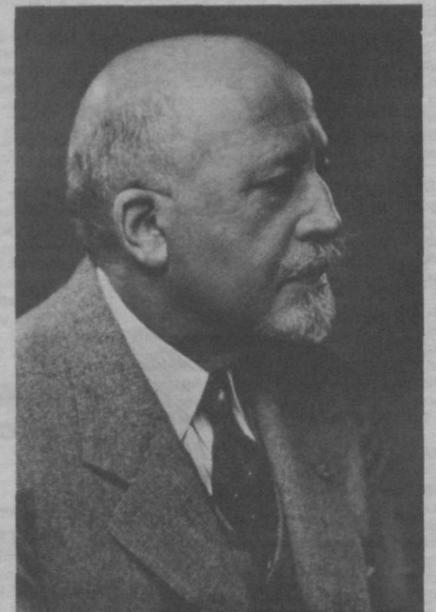
Besides his scholarly publications, he wrote "Souls of Black Folk" in 1903, establishing his reputation as a stylist and voicing the revolt of black intellectuals against the compromises of Booker T. Washington.

In 1905, DuBois founded the Niagara movement, which evolved into the National Association for the Advancement of Colored People. As editor of the organization's publication, Crisis, from 1910 to 1932, he railed against the injustices inflicted on blacks.

He was a professor of economics and history at Atlanta University from 1897 to 1910 and head of the Department of Sociology there from 1932 to 1944.

At the first pan-African conference in London in 1900, he urged the liberation of African colonies and led the movement in four later congresses. In the 1940s, he espoused a pro-Soviet line.

In 1947, he published "The World and



W.E.B. DuBois

Africa"; and in 1952, "In Battle for Peace."

In 1961, at the age of 93, he joined the Communist Party. The following year, he settled in Ghana, where he died in 1963 shortly after becoming a citizen of that country.

## Cornell CHRONICLE

To keep abreast of what's going on at Cornell, subscribe to the Cornell Chronicle. Each issue is packed with news of the latest events on campus and stories about faculty members' research and their thoughts about world events.

Other regular features include previews of concerts and theater performances, a column highlighting notable achievements by faculty members, and a listing of upcoming varsity sports events and a run-down of team standings.

The two-page calendar center spread offers a comprehensive listing of dance events, exhibits, films, lectures, music, religious services, seminars and plays for the week. And every issue of the paper includes a listing of job opportunities at the university, too.

A one-year subscription for 40 issues of the Chronicle is \$25; a two-year subscription, just \$45.

Please make checks payable to Cornell Chronicle, and mail them to: Cornell Chronicle, Village Green, 840 Hanshaw Road, Ithaca, N.Y. 14850. The telephone number is (607) 255-4206.

# Job Opportunities

February 4, 1988  
 Number 4  
 Office of Human Resources  
 Cornell University  
 160 Day Hall  
 Ithaca, New York 14853-2801

In compliance with the Immigration Reform and Control Act of 1986, Cornell University is now required to check the identity and employment eligibility of all new hires. Effective June 1, 1987, if you accept a position, you must show documents on or before your first day of work, that indicate your identity and employment eligibility; for example, a state issued driver's license and a birth certificate. For more information, contact Staffing Services, 255-5226.

-Send cover letters & resumes to Staffing Services, 160 Day Hall, Cornell University, Ithaca, NY 14853.

-Employment & employee transfer application forms are available at both Staffing Services locations-160 Day Hall & East Hill Plaza.

-Requests for referral &/or cover letters are not accepted unless specified in the ad.

-Cornell University is an Affirmative Action/Equal Opportunity Employer.

-This listing is also available on CUNINFO. Terminals are situated in main lobbies of Day Hall & Gannett Clinic, & the Olin, Mann & IIR Libraries.

Minimum salaries listed are for recruitment purposes only.

**DINING SUPERVISOR I (PA0403)** Dining  
 Supv. daily operation of dining unit, incl. purchasing & storage of food & supplies, maint. of equip., planning menus & prep. & dispensing of food.  
 Req.: AAS or equiv. combination of ed. & exp. req. 1 yr. food svc. supv. exp. Knowl. of food & health codes desir. Letter & resume to Cynthia Smithbower by 2/19.

**ADMINISTRATIVE MANAGER I (PA0404)** Facilities & Engineering Admin.  
 Manage busn. info. & p/r processing for Maint. & Serv. Operations enterprise & Maint. Mgmt. & Grounds Dept. allocations for Engr. & Facil. Dept. (\$20M budget, 300 nonex. staff).  
 Req.: BS or equiv. in busn. or related field. Considerable job related exp. in gen'l. ledger & cost acctg., busn. operations & budget reporting/analysis (CU exp. pref.). Demonstrated org. supv., interper., written/verbal skills nec. Ext. use of microcomputer applications & mainframe databases req. Basic concepts of database mgmt. nec. Letter & resume to Cynthia Smithbower by 2/15.

**TECHNICAL CONSULTANT III (PT0408)** Computer Services  
 Evaluate use of interactive laserdisc technologies in higher ed. Provide asst. to univ. academic personnel in use of microcomputer & advanced workstation hardware & software w/a-v tech. for computer aided instruction & mgmt. Direct assistance will be provided through consultation, trng., ed. & documentation.  
 Req.: BS; MS pref. in ed., computer aided instruction, evaluation & measurement, mass media, comm. or related field. Exp. developing ed. or comm. systems using microcomp., advanced workstation & audio-visual media req. Teaching exp. nec., pref. at univ. level. Letter & resume to Judi Deane by 2/18.

**TECHNICAL CONSULTANT III (PT0407)** Computer Services  
 Produce instruct'l. material using a number of computer & a-v media. Provide asst. to univ. academic personnel in use of microcomputer & advanced workstation hardware & software w/a-v tech. for computer aided instruction & mgmt.  
 Req.: BS; MS pref. w/courses in ed., computer aided instruction, mass media, comm. or related field. Exp. developing ed. or comm. systems using microcomp., advanced workstation & a-v media req. Exp. in computer prgrmg. highly desir. Letter & resume to Judi Deane by 2/18.

**MINORITY BUSINESS MANAGER PROGRAM (PA0402)** Controller  
 As part of CU's Affirmative Action Program, minority candidates are invited to apply for a managerial training program. The program is designed to provide exp. & trng. in all aspects of univ. admin. sufficient to prepare individual for a business mgmt. role at Univ.  
 Req.: BA in business admin. or related field, concentration in finance/acctg. MBA desir. 2 yrs. relevant work exp. desir. 1 position; program begins 9/1 & lasts approx. 6 months. Upon successful completion of program, individual will be considered for a regular business/admin. manager position. Letter & resume to Search Committee: Minority Business Manager Training Program by 3/15.

**DIRECTOR OF FACILITIES (PA0405)** Veterinary College  
 Coord. daily activities assoc. w/implementing College's Facilities Master Plan, an ext. construction/renovation project. Chief advisor on & coord. activities assoc. w/allocation of space & capital planning & budgeting. Resp. for facil. admin. & supv. of various support services. Supv. staff. Reports to Asst. Dean for Admin.  
 Req.: BS in busn. admin. or engr. Supv. exp. Strong oral/written comm. & interper. skills. Exp. in planning for fiscal & resource mgmt. w/pref. given to exp. in facilities planning &/or admin. Proven leadership skills. Sound analytical skills. Letter & resume to Cynthia Smithbower by 2/26.

**FACILITIES COORDINATOR (PA0202)** New York Statutory Colleges Finance & Business Operations  
 Reports to Dir., Stat. Fin. & Bus. Op., incumbent resp. for mgmt. existing instruct'l., research & extension facilities (\$300M) in NYS incl. Ithaca & Geneva Exp. Station. Work w/academic/non-academic, statutory, endowed univ. admin., contractors & facility/construction personnel, also resp. for full range of prof. activity, planning/construction of future renovation (e.g. rehab., restoration) & new facilities construction (e.g. site selection, design, etc.).  
 Req.: BS Arch. or mech. eng. & min. 10 yrs. significant & resp. exp. in priv. constr., govern. or univ. fac. mgmt. or rtd. exp.; understanding of computer use in long range planning, campus maint./util. proj. req'd. NYS prof. cert. or ability to secure w/in 1 yr. essent. MS mech./arch. eng., arch. or MBA must have min. 5 yrs. exp. indicated above. Exp. oral & written comm. skills w/demonstrated ability to work effectively

w/in highly complex environ. must. College/univ. fac. exp. desir. Send letter, resume, salary history, & list of 3 prof. ref. by 2/22 to: Statutory Facilities Coordinator Search Committee, Statutory Finance & Business Operations, P.O. Box D, B-22 Mann Library Building, Ithaca, NY 14851-0199.

**DIRECTOR, PUBLIC SAFETY (PA0107)** Public Safety  
 Reporting to V.P. Campus Affairs, Dir. is resp. for dept. admin./operation & establishes dept. policy & procedures. This incl. mgmt. resp. for commissioned & civilian personnel (e.g. recruitment, trng., etc.). Also determines approp. dept. enforcement techniques & patrol procedures. Resp. for program devel. in following areas: law enforcement, security & univ. serv., parking control/enforcement, disaster procedures, records maint. program, inspect'l. svcs. & comm. systems, also maintains positive relationships w/members of univ. community & media, as well as local criminal justice & law enforcement agencies.  
 Req.: BS/BA & comb. of add'l. ed. & exp. Extensive exp. in leadership role w/a campus law enforcement org. & proven supv. skills over multi-faceted campus law enforcement agency essent. Salary negot. & based on exp. & quals. Start no later than 8/1/88. Letter, resume & 3 prof. refer. by Tues., 3/15 to: William D. Gurowitz, V.P. Campus Affairs, 313 Day Hall.

**STAFF WRITER II (PC0307)** Theory Center  
 Prepare publications & reports; provide prof. support to Theory Center external relations staff.  
 Req.: BA. Journalism or scientific writing or equiv. Min. 3 yrs. solid writing exp. Exp. summarizing scientific info. pref. Exp. working w/print shops & media. Able to work independ. w/high degree of accuracy & w/confidential info. & meet deadlines. Strong org. & interper. skills nec. Exp. w/desktop publishing software pref. Letter, resume & writing sample to Esther Smith by 2/12.

**RESEARCH SUPPORT SPEC. II (PT0303)** Ecology & Systematics  
 Participate in design & execution of biogeochemical & ecological research studies involving experimentation & lab chemical analyses. 2 yr. appt.  
 Req.: BS in environmental sci. or related field. 3-4 yrs. lab & field exp. in biogeochemistry; exp. w/ion chromatography, gas chromatography, nutrient analyses & 14C productivity measurements in natural waters. Letter & resume to Judi Deane by 2/12.

**SR. TECHNICAL CONSULTANT (PT0306)** Mathematical Sciences Institute  
 Provide applications & systems prgrmg. assistance to Mathematical Sciences Institute visitors; maintain system on UNIX host on Theorynet.  
 Req.: BS in engr. or physical sci.: some coursework in Comp. Sci. UNIX systems prgrmg. 3-5 yrs.: Fortran; VM/CMS 1-2 yrs. &/or FPS-APFTN applications prgrmg. exp. desir. Letter & resume to Judi Deane by 2/12.

**DIRECTOR, CORNELL CLUBS (PA0310)** Alumni Affairs  
 Develop long/short range plans & annual budgets for Cornell Club & Federation programs; implement same w/prof./support staff & reg'l. offices. within budget parameters; supv. staff & help coord. activities involving clubs & clubs.  
 Req.: BA/BS Demonstrated ability to work with & organize volunteers; able to identify & develop leaders; strong oral/written comm. skills; exc. interper. skills to relate to a wide range of individuals. Letter & resume to Cynthia Smithbower by 2/19.

**REGULAR EMPLOYEES** Submit an employee transfer application, resume & cover letter. Career counseling interviews are available by appt. **EXTERNAL APPLICANTS** Submit an employment application & resume to 160 Day Hall. Interviews are conducted at Staffing Services, East Hill Plaza by appt. only. Qualified applicants will be contacted after materials are reviewed.

**OFFICE ASST., GR17 (C0213)** NYSSILR Ext. & Public Service  
 Provide clerical support to Human Svcs. Admin. Program. Assemble & type trng. materials; prep. instructor contracts, travel expense forms & other program materials; maintain records, summaries & computerized mailing lists; type & edit corresp., reports, grant proposals & manuscripts; assist w/recept. duties. Until 10/31.  
 Req.: H.S. dip. or equiv. Some offc. exp. pref. Strong org. & comm. skills. Attention to detail & familiar w/IBM-PC & related software nec. Med. typing. Min. Biweekly: \$420.76

**SECRETARY, GR17 (C0405)** NYSSILR-Pers. & Human Res. Studies  
 Type corresp., course materials, manuscripts & other materials, incl. tables, charts, containing stat. notations for several faculty. Assist w/stat. calculations for tables; perform libr. searches for references; assist in revisions & editing of manuscripts; answer, screen & direct calls, students & visitors; arrange appts. & mtgs.; prepare travel vouchers, sort mail.  
 Req.: H.S. dip. or equiv. Min. 1 yr. offc. exp. Operating knowl. of PC's & WP (IBM & Wordp. pref.); able to set priorities & work in complex, active environ. Exc. org./interper./comm. skills; familiar w/math calculations & stat. typing nec. Med. typing. Min. Biweekly: \$420.76

**WORD PROCESSOR OPERATOR, GR18 (C0409)** Civil & Environmental Engr.  
 Input & format highly tech. (math & scientific) manuscripts, coursework & numerous other projects using PC; assist in gen'l. service-oriented main offc. resp.  
 Req.: H.S. dip. or equiv. WP coursework/exp. helpful. Knowl. of WP equip. Some sec. exp. Strong interper. & org. skills essential. Heavy typing. Min. Biweekly: \$444.37

**NIGHT SUPERVISOR, GR18 (C0412)** Circulation Physical Sciences Libr.  
 Resp. for Circ. Desk coverage incl. checking books in & out; maintain circ. file; refer reference questions; maintain Copy Service Operation. M-Th., 3 p.m.-12 midnight; Fri., 4 p.m.-12 midnight.  
 Req.: BA or equiv. pref. Libr. exp. highly desir. Lt. typing. Min. Biweekly: \$444.37

**SECRETARY, GR18 (C0214)** NYSSILR Ext. & Public Service  
 Provide sec. & clerical support for Human Services Admin. Program. Set up, maintain & revise program, student & instructor files; type & edit corresp., articles, manuscripts, grant applications & final reports; utilize computer for filing & WP; transcribe machine dictation; answer & screen calls; open, screen & route mail. Until 8/31/90.  
 Req.: H.S. dip. or equiv. Sec. school desir. Min. 2 yrs. related exp. Strong org., comm. & sec. skills. Familiar w/computer, WP & statutory college procedures nec. Med. typing. Min. Biweekly: \$443.13

**OFFICE ASST., GR19 (C0408)** Graduate School-Admissions  
 Process grad. applications, admissions, refusals & other actions as authorized; maintain records; type corresp.; maintain admission stats.; provide info. to faculty & applicants.  
 Req.: AAS or equiv. Knowl. of data entry req. Strong org. skills. Attention to detail & accuracy essential. Able to set priorities & work in a complex, active environ. Med. typing. Min. Biweekly: \$470.80

**ADMINISTRATIVE AIDE, GR20 (C0404)** CU Council  
 Provide recep./sec. support. Interact w/alumni & friends at Univ. Heavy WP, editing/proof-reading; lt. acctg.; maintain files, lists & directories; assist in prep. for mtgs. & conferences.  
 Req.: AAS in sec. sci. or equiv. Exc. editorial/proofreading, spelling & grammar skills. Proficient in WP. Some exp. w/CU acctg. helpful. Exc. interper., & org. skills. Attention to detail. Able to set priorities & work independ. in an active environ. Min. Biweekly: \$496.80

**ACCOUNTS ASST., GR20 (C0401)** Grounds Division  
 Provide admin./acctg. support. Resp. for large inventory, purchase & receipt of materials & voucher processing; monitor acctg. & expenditures; prepare data for budgets, quarterly & annual reports.  
 Req.: AAS in acctg. or equiv. Min. 1 yr. related work exp. in cost acctg. (CU exp. pref.). Demonstrated org. skills nec. Basic concept of database mgmt. & computer applications req. Knowl. of Mac. pref. Min. Biweekly: \$496.80

**SECURITIES PROCESSING COORD., GR24 (C0410)** Fiduciary Operations  
 Resp. for accurate & timely completion of all phases of securities processing, clearance & reconciling functions.  
 Req.: AAS or equiv. Min. 4 yrs. related exp. w/1-2 yrs. securities related exp. desir. Basic keyboard skills. Exc. comm. (oral/written) skills. Letter & resume to Esther Smith by 2/11. Min. Biweekly: \$625.43

**REGULAR EMPLOYEES** Submit an employee transfer application to Staffing Services, 160 Day Hall. Interviews are conducted at Staffing Services, East Hill Plaza by appointment only. Qualified applicants will be contacted after materials are reviewed. **EXTERNAL APPLICANTS** Submit an employment application to Staffing Services, 160 Day Hall. Interviews are conducted at Staffing Services, East Hill Plaza by appt. only. Qualified applicants will be contacted after materials are reviewed.

**LAB TECHNICIAN, GR21 (T0402)** Vet. Medical Teaching Hosp.  
 Perform diagnostic tests in hematology, cytology coprology, urinalysis, microbiol., chem. & immunology sections of Clin. Path. Lab. Operate & maintain equip. Participate in "on-call" coverage for off hrs. & holidays. Computer use.  
 Req.: AAS in med. tech. req.; BS in med. tech., ASCP cert. pref. 2 yrs. exp. in clinical lab w/emphasis on hematology &/or microbiol. pref. Apply ASAP. Min. Biweekly: \$526.14

**TECHNICIAN, GR21 (T0121)** Food Science  
 Conduct nutrit'l. studies on effects of unsaturated fatty acids; lipid analyses of bio. tissues; quantification of prostaglandins by RIA separation of lipid classes & leukotrienes by HPLC; analysis of fatty acids by gas chromatography.  
 Req.: BS or MS in biochem./nutri. sci. or related subject. Knowl. of lipid analyses, gas chromatography, HPLC & TLC. Exp. w/prostaglandin RIA analysis & feeding trials desir. Aptitude w/computers. Apply by 2/12. Min. Biweekly: \$526.14

**TECHNICIAN, GR21 (T0311)** Genetics & Development  
 Carry out, record & assist in analysis of Drosophila molecular bio. & population genetics experiments; contribute to supv. of gen'l. lab functioning & assist in teaching tech. to new personnel.  
 Req.: BS in bio., chem. or equiv. Bkgrnd. in molecular bio., biochem. or genetics desir. Previous lab exp. req. Apply by 2/12. Min. Biweekly: \$527.69

**ACCOUNTS ASST., GR17 (C0411)** Fiduciary Operations  
 Clerical duties assoc. w/processing Trust Acctg. entries. Mon.-Fri., 3 p.m.-7 p.m., Saturdays as needed.  
 Req.: H.S. dip. or equiv. Basic offc. skills. Demonstrated keypunch/data entry skills. Lt. typing. Min. full-time equiv.: \$421.81

**ACCOUNTS ASST., GR19 (C0406)** Design & Environ. Analysis  
 Assst. in maintaining financial records; post, record & monitor daily transactions for dept. acctg. using Mac computer (Excel); produce monthly acctg. reports; receive & deposit income; type vouchers, purchase orders; prepare p/r for non-exempt, non-work study & work study; prepare non-academic & student appt. paperwork. 20-25 hrs./wk.  
 Req.: AAS in acctg. or equiv. Min. 2-3 yrs. offc. & acctg. exp. Knowl. of CU statutory acctg. system & spreadsheet software desir. Able to work independ. Med. typing. Min. full-time equiv.: \$469.53

**SECRETARY, GR20 (C0413)** Physics  
 Tech. typing & WP for dept. instruct'l. pro-

**REGULAR EMPLOYEES** Submit an employee transfer application, resume & cover letter. **EXTERNAL APPLICANTS** Submit an employment application, resume, & list of laboratory techniques/equipment, or computer languages/hardware with which you are familiar. Submit a cover letter for each position for which you apply, (specify title, dept. & job number) to Judi Deane 160 Day Hall. The following backgrounds are highly desired: biochem., chem., microbio., elect., physics, lic. animal health tech.

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**ANIMAL ATTEND., SO18 (T0409)** Animal Science-Statutory  
 Feed, clean, care for, handle & weigh sheep. Prep. experimental & flock diets. Operate & maintain equip. Maintain pastures & fencing, clean barns, assist w/experimental data collection. Attention to detail & accuracy. Mon.-Fri., 8-5.  
 Req.: H.S. dip. or equiv. Sheep &/or gen'l. farm exp. pref. Familiar w/farm equip. Able to lift 50 lbs. Apply ASAP. Min. hourly: \$6.06

**ANIMAL TECHNICIAN, GR18 (T0312)** Lab Animal Services  
 Provide daily care of lab animals (care, feed, water, exercise); gen'l. cleaning & maint. of cages & pens. Maintain I.D., breeding & inventory records. Weekend work req.  
 Req.: H.S. dip. or equiv., AAS in An. Sci. pref. Asst. An. Tech. Cert. desir. Previous animal handling exp. in an institut'l. environ. desir. NYS driver's lic. & able to lift 50 lbs. Pre-employment physical req. Min. Biweekly: \$443.13

**TECHNICIAN, GR19 (T0302)** Entomology  
 Assist in insect pests field & lab research. Conduct insect sampling programs in field, process samples in lab, identify & count insects. Maintain greenhouse & lab cultures of plants & insects. Record data on computer; supv. temp. employees.  
 Req.: BS in bio. &/or ag. sci. Coursework in entomology & ecology. Lab & field exp. in agronomy, ecology or plant protection desir. Apply by 2/12. Min. Biweekly: \$469.53

**TECHNICIAN, GR19 (T0403)** Entomology  
 Provide research support studies of pesticide resistance mgmt., incl. lab/field studies on various pests; supv. stock & experimental insect colony maint.; collect data & assist in result summarization & analysis. 1 yr. renewable.  
 Req.: BS in bio., entomology or genetics; valid NYS driver's lic. 1-2 yrs. trng. in 1 or more of following highly desir.—insect rearing, experimental design & procedures, statistics, computer literacy. Apply ASAP. Min. Biweekly: \$469.53

**TECHNICIAN, GR20 (T0309)** Animal Science  
 Resp. for swine herd production & mgmt. Breed & farrow swine for research trials. Duties incl. use of current sophisticated production techniques; e.g., crossbreeding systems, computer recordkeeping system, summarizing production data. Assist w/research trials in protocol planning. Participate in research trials, collect & summarize data, trouble-shoot problems. Assist w/teaching techniques to students.  
 Req.: BS or equiv. in animal sci. 1-2 yrs. exp. in swine production & trng. in reproductive physiology highly desir. Apply by 2/12. Min. Biweekly: \$495.35

**LAB TECHNICIAN, GR21 (T0402)** Vet. Medical Teaching Hosp.  
 Perform diagnostic tests in hematology, cytology coprology, urinalysis, microbiol., chem. & immunology sections of Clin. Path. Lab. Operate & maintain equip. Participate in "on-call" coverage for off hrs. & holidays. Computer use.  
 Req.: AAS in med. tech. req.; BS in med. tech., ASCP cert. pref. 2 yrs. exp. in clinical lab w/emphasis on hematology &/or microbiol. pref. Apply ASAP. Min. Biweekly: \$526.14

**TECHNICIAN, GR21 (T0311)** Genetics & Development  
 Carry out, record & assist in analysis of Drosophila molecular bio. & population genetics experiments; contribute to supv. of gen'l. lab functioning & assist in teaching tech. to new personnel.  
 Req.: BS in bio., chem. or equiv. Bkgrnd. in molecular bio., biochem. or genetics desir. Previous lab exp. req. Apply by 2/12. Min. Biweekly: \$527.69

**ACCOUNTS ASST., GR17 (C0411)** Fiduciary Operations  
 Clerical duties assoc. w/processing Trust Acctg. entries. Mon.-Fri., 3 p.m.-7 p.m., Saturdays as needed.  
 Req.: H.S. dip. or equiv. Basic offc. skills. Demonstrated keypunch/data entry skills. Lt. typing. Min. full-time equiv.: \$421.81

**ACCOUNTS ASST., GR19 (C0406)** Design & Environ. Analysis  
 Assst. in maintaining financial records; post, record & monitor daily transactions for dept. acctg. using Mac computer (Excel); produce monthly acctg. reports; receive & deposit income; type vouchers, purchase orders; prepare p/r for non-exempt, non-work study & work study; prepare non-academic & student appt. paperwork. 20-25 hrs./wk.  
 Req.: AAS in acctg. or equiv. Min. 2-3 yrs. offc. & acctg. exp. Knowl. of CU statutory acctg. system & spreadsheet software desir. Able to work independ. Med. typing. Min. full-time equiv.: \$469.53

**SECRETARY, GR20 (C0413)** Physics  
 Tech. typing & WP for dept. instruct'l. pro-

**REGULAR EMPLOYEES** Submit an employee transfer application, resume & cover letter. **EXTERNAL APPLICANTS** Submit an employment application, resume, & list of laboratory techniques/equipment, or computer languages/hardware with which you are familiar. Submit a cover letter for each position for which you apply, (specify title, dept. & job number) to Judi Deane 160 Day Hall. The following backgrounds are highly desired: biochem., chem., microbio., elect., physics, lic. animal health tech.

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gram (coursework, lab manuals, dept. student records); reprint sec.; operate offset press; answer phones. Mon.-Fri., 5 hrs./day.  
 Req.: AAS or equiv. Min. 1 yr. offc./sec. exp. WP exp. helpful. Strong comm. skills. Heavy typing. Min. full-time equiv.: \$496.80

**TECHNICIAN, GR21 (T4601)** Psychology  
 Operate & supv. Infant Research Ctr. Supv. research group conducting experiments w/human infants. Flex. 20 hrs./wk. Until 8/31/88, renewal expected through 8/31/89.  
 Req.: BA/BS in Psychology. Some research exp. Good supv. & interper. skills essential. Computer prgrmg. & WP skills pref. Letter & resume to Judi Deane ASAP. Min. full-time equiv.: \$527.69

**ADMINISTRATIVE AIDE-LEGAL, GR22 (C0402)** University Counsel  
 Provide admin. assistance to 2 staff litigation lawyers. Prepare legal documents; maintain filing system; type memoranda & corresp. 5 days/wk., 20 hrs.  
 Req.: AAS in busn. or equiv., concentration in law pref. 3 yrs. work exp. in law &/or admin. offc. (law offc. pref.). Exp. in litigation matters, memory typewriter & Mac PC pref. Exc. skills. Confidentiality essential. Heavy typing. Min. full-time equiv.: \$556.14

**ENVIRONMENTAL HEALTH SPECIALIST (PT0401)** Environmental Health  
 Prepare health & safety trng. program mat'l. Coord., conduct & document health & safety trng. sessions. Respond to requests for info. on substances used in the workplace. Maintain Material Safety Data Sheet databases. Mon.-Fri., 20 hrs.  
 Req.: BS req. (MS pref.) in chem., toxicology or a similar discipline. Good oral & written comm. & interper. skills req.; research lab exp. desir.; lab safety exp. desir. Letter & resume to Judi Deane by 2/19.

## Temporary

Experienced & skilled individuals specifically interested in temporary clerical/general service work can contact Lauren Worsell (255-5226).

**INFO. & REFERRAL OPER. (C0403)** Ag. Economics  
 Answer "800" number calls from w/in NYS, discern callers needs & concerns, matching these w/approp. listings of county & state referral & info. sources. Keep accurate logging data on calls. Casual, approx. 10-19 hrs./wk. thru March. Mon.-Fri., 10 a.m.-5 p.m.  
 Req.: H.S. dip. or equiv. Lt. typing w/WP exp. desir.; Wordperfect pref. Some counseling or trng. exp. desir. Able to deal w/sensitive issues. Strong listening & interper. skills. Familiar w/farming, farm families or CU Coop. Ext. req. Call Laurie Worsell at 255-7044.

**OFFICE ASST., GR16 (C0306)** Residence Life  
 Ensure accurate & up-to-date records on 200 residents involved in opening & closing of bldgs. during renovations; input data into computer. 9 month appt.  
 Req.: H.S. dip. or equiv. IBM-PC knowl. pref. Exc. org. skills. Able to work independ. Lt. typing. Min. Biweekly: \$401.78

**CLERICAL ASST. (C4504)** Summer Session  
 Answer phone & mail inquiries; provide info. to callers; process applications, recommendations & transcripts through acceptance to programs; assemble & process bulk mailings, info. packets for students & parents & assist w/registration & course changes; enter student data on computer. Until 5/1/88.  
 Req.: AAS or equiv. Exp. w/IBM PC/XT using dBase III Plus software essential. Exc. org., interper. & comm. skills. Med. typing. Letter & resume to Esther L. Smith.

**STAFF ASST. (C0308)** Dean of Students Office  
 Coord. off-campus housing advisement program (e.g. housing laws, listing system) incl. neighborhood programs, landlord/tenant dispute resolution. Liaison to local residents, landlords, local housing officials & related univ. staff.  
 Req.: AAS or equiv., BA pref. Knowl. of or exp. in rental housing & programs; renting laws & Ithaca area. Aptitude for admin. computerized data bases pref. Flexible hrs. Letter & resume to Laurie Worsell by 2/5.

**DATABASE SEARCHING ASST. (C2118)** Mann Library  
 Oversee some admin. details of enduser program. Help train, schedule & evaluate staff; assist w/prep. of documentation & telecommunications software configuration; guide & coach student searchers during evenings & some weekends. Work under supv. of Info. Library. 5-15 hrs./wk.; some evenings & weekends.  
 Req.: BS/BA or equiv. in a subject related to agriculture, bio. or human ecology. Exp. w/PC's & software, w/trng. & supervising others & working w/public. Familiar w/databases & libs. Lt. typing.

**OFFICE ASST. (C4702)** Vet Medical Teaching Hosp.  
 Provide informative & factual comm. between Small Animal Clinic, clients, referring vets. & gen'l. public. Resp. for scheduling appts.; messages; paging Drs.; handle emergencies & dispensing gen'l. info. to public. 10 a.m.-6 p.m., Mon.-Fri., 8 a.m.-12 noon, Sat.  
 Req.: H.S. dip. or equiv. Basic med. term. helpful. Exc. phone manners essential. Customer svc. orientation. Computer exp. essential. Switchboard helpful. Letter & resume to Laurie Worsell.

**DATA ENTRY OPER. (C4503)** Summer Session  
 Computer entry (IBM PC/XT using dBase III plus) of data from application & recommendation forms for Summer College applicants; production of reports & program statistics, answer phone inquiries from students, parents & guidance counselors re: Summer College program. Until 8/31/88.

## Unusual operation saves eyes of duck who thinks he's a goat

Michael the duck is back on the farm, recovering his eyesight after double cataract surgery in Cornell's veterinary teaching hospital and preparing to resume life as a goat.

Since Michael, who mostly is a mallard, showed up on the Hannah's Farm pond six years ago, he has endeared himself to the Fredericks family, who raise Angora goats, rabbits and llamas in Duanesburg, N.Y., near Albany. Michael was the only duck on a farm dedicated to producing fiber from woolly animals and he followed the goats around, eating their feed, grooming some and butting heads with the others.

"He thinks he's a goat," explained Paula Fredericks.

But last summer, one eye in the glossy green head became cloudy. At first the Fredericks suspected a traumatic injury: too much goat butting, perhaps. Then the lens of the other eye turned opaque, and Michael had trouble navigating about the farm. He had to be directed to his feed by tapping, and some rough-and-tumble goats took advantage of the blind duck.

Dr. Donna Ialeggio of the Guilderland Animal Hospital in Altamont, N.Y., confirmed that Michael was suffering from cataracts, and recommended treatment at Cornell's College of Veterinary Medicine, where Dr. Ronald C. Riis, a veterinary ophthalmologist, agreed to take the case. The duck was admitted to the Small Animal Clinic last Thursday and prepared for surgery.

First Michael was tested by Dr. Ellis Loew with an ERG (an electro-retinogram), which flashes light through the clouded lens of the eye to determine whether the retina is

sending signals to the brain. If the retinas were diseased, there would be no chance of restoring vision, said Richard Panzer, a fourth-year veterinary student who assisted in the operation. Michael's retinas were fine.

With Jody Sandler, another four-year veterinary student, serving as anesthesiologist, Dr. Riis performed the delicate operation through a dissecting microscope. The liquid material of one cataract was removed with a needle and syringe, while the other was extracted by conventional technique. Dr. Riis was satisfied that the posterior section of the duck's tiny eyes were healthy and should give some vision.

For the veterinary college, it was only the second duck cataract operation, although the procedure is more common in older dogs. "Just like people who have had cataracts, the duck will have trouble compensating for distances," Panzer predicted. "Close focus will be a problem, and he will be more farsighted."

For the Hannah's Farm folks, it was a lot of high-tech fuss for a barnyard pet. "The duck was very healthy and enjoying his life," said Paula Fredericks. "We don't believe in unnecessary heroics, but if there was something that could be done for him, we felt he should have the opportunity."

Michael was sent home the same day the operation took place, along with special eye drops and antibiotics to be given in his feed. Until he is ready to join the herd again, he is spending his time with another disabled animal, a goat named Abraham with pulmonary fibrosis.

— Roger Segelken



Claude Levett

Gary Hartig, a graduate student in Germanic Studies, readies his 4-year-old daughter Krista for sledding at Cornell Plantations last week.

### Construction *Continued from page 1*

tims of our own successes."

He said Cornell's veterinary college was "simply the best" of the 27 nationally, noting that it got 5.7 applicants for each of its 80 positions each year and that its \$17 million in research funds — 40 percent of the college's total budget — led all 27 schools last year.

He explained that the 30-year-old facilities, besides being too small, predated the growth of veterinary specialties and of graduate research, which he said often is undertaken today for its potential application to human medicine.

His long-range plan calls for 236,000 gross square feet of new space and 79,500 of renovated space, with an estimated total price tag of about \$70 million. But Phemister said even the planning phase — estimated to cost \$5.74 million — cannot begin unless the State Legislature adopts Governor Cuomo's proposal to lift the ceiling on borrowing imposed on the State University of New York.

Without considering specific designs, the

trustees endorsed Phemister's planning, which reflects not only changes in science but also the college's sheer growth over about 25 years — from 206 to 319 DVM students, from 24 to 90 graduate students, from 37 to 129 faculty members and from 122,000 to 685,000 diagnostic lab tests a year.

Phemister reported that this year's class of 80 included 50 percent women — up from 6 percent in 1977 — and 11 percent minority-group members, which he said was twice the national average. He said the school was just embarking on a test of admitting veterinary students after only two years of undergraduate study.

The year-end research report was presented by Joseph M. Ballantyne, vice president for research and advanced studies.

He said total research expenditures for the fiscal year that ended last June 30 were \$244 million, up 8 percent from a year earlier, when Cornell ranked third in the world in university research expenditures — behind the Massachusetts Institute of Technology

and the University of Wisconsin-Madison — and first in funding from the National Science Foundation. Because Cornell's support base is broader than that of M.I.T., it may fare relatively better when there are federal fund cutbacks in specific areas, Ballantyne said. Thus it is possible that Cornell could become first in the world in total research, he added.

The year-end report on private gifts to Cornell was presented by Richard Ramin, vice president for public affairs. He said that gifts were down by about 2 percent in 1987 from 1986, from \$72.2 million to \$70.8 million. But in light of the October stock market plunge, the showing was very strong, Ramin explained, adding that last year's total for gifts was up 20 percent from two years ago, although the portion involving stocks and trusts decreased.

To replace trustee Jack Sheinkman, who resigned, the board elected Bruce S. Raynor as the new trustee from the field of labor in New York State. In recommending his successor, Sheinkman noted that Raynor had

attended Cornell's School of Industrial and Labor Relations and therefore "has ties to Cornell above and beyond those of this position."

Raynor, who will serve until June 30, 1990, is a 1972 ILR graduate who serves as southern regional director and international vice president of the Amalgamated Clothing and Textile Workers Union.

In one of the lighter moments of committee and plenary meetings that spanned three days, the board heard consoling words from Joseph B. Bugliari, who will retire in June from five years as dean of the faculty.

Bugliari said that, amid all the striving for excellence, trustees and administrators should take satisfaction from just keeping the enterprise going. After all, he said, running a university is like Samuel Johnson's description of a dog walking on its hind legs:

"It's not done well, but you are surprised to find it done at all."

— Sam Segal

### Job Opportunities

Continued from page 10

Req.: AAS or equiv. Exp. w/ IBM PC/XT & dBase III Plus software essential. Exc. keyboarding. Letter & resume to Esther Smith.

### Academic

#### EXECUTIVE DIRECTOR, NYS 4-H FOUNDATION/4-H PROGRAM SPECIALIST (A0401) Coop. Extension

Develop & implement a statewide plan for financial resource development, to serve needs of CU Coop. Ext. 4-H Youth Development Program & provide leadership for compatible 4-H programs in NYS.

Req.: MS in approp. field, 3 yrs. related prof. exp. Send letter of intent, resume, transcripts & names of 3 references under confidential cover by 3/1/88 to Mary Lou Brewer, Asst. Dir., 4-H Cornell Coop. Ext., Box 4, Roberts Hall, Ithaca, NY 14853.

#### ASST. UNIV. LIBRARIAN FOR COLLECTION DEVELOPMENT & PRESERVATION (A0402) Univ. Libraries

Provide leadership in defining, bldg. & preserving collections of CU Lib. Send letter of application, resume & list of 3 references to Ann Dyckman, Library Personnel Dir., 201C Olin Library, Cornell University, Ithaca, NY 14853 by 3/11.

#### HEAD OF PUBLIC SERVICES (A0403) Mann Library

Send cover letter, resume & list of 3 references to Ann Dyckman, Library Personnel Dir., 201C Olin Library, Cornell University, Ithaca, NY 14853.

## Lunchtime Bytes resumes Feb. 11

The weekly sharing of microcomputer know-how on campus during the Thursday Lunchtime Bytes Seminar Series in 100 Caldwell Hall will resume Feb. 11.

The opening session will feature a discussion by Agelia Velleman, assistant director of academic computing for Cornell Computer Services, on academic computing at Cornell and where it is headed.

Meetings are scheduled from 12:20 to 1:10 p.m. and are open to all members of the Cornell community. Ten other sessions are scheduled throughout the spring term:

- Feb. 18 — Menu Analysis — An Interactive Spreadsheet; David L. Romm and Mark Talbert, Hotel Administration.

- Feb. 25 — Understanding Chemical Exposure: Toxicology and Public Health; Jeanne Appling, Water Resources Institute.

- March 3 — Computer Generation of Holograms; Randall J. Lane and Richard V.E. Lovelace, Applied and Engineering Physics.

- March 10 — Cornell's High-Speed Internetworking Environment; Dick Cogger, Computer Services, and Scott Brim, Theory Center.

- March 17 — Macintosh Computer Aided Design in the Facilities Environment; Stephen E. Little, Facilities Engineering.

- March 31 — An Interactive Graphics Toolkit For FORTRAN Programmer Using Enhanced Color Display (with Enhanced Graphics Adapter); Peter Loucks, Civil and Environmental Engineering.

- April 7 — Computing and the Humanities: A Perspective on the Impact of Technology on Research and Teaching; James S. Noblitt, IBM Consulting Scholar in the Department of Modern Languages and Linguistics.

- April 14 — SOLVER: An Interactive Structural Analysis and Design Program; Kifle G. Gebremedhin, Agricultural Engineering.

- April 21 — Applications and Educational Implications of Interactive Laserdisc Technology; Geri Gay, Computer Services.

- April 28 — MacTRANS: A Transportation Network Modeling Package; Anthony J. Richardson, Environmental Engineering.

The sponsor of these seminars is Academic Computing, a division of Cornell Computing Services. Gordon L. Galloway is director of Academic Computing.

For more information about the upcoming seminars, contact Carrie Regenstein, coordinator of the series, Room 215 Computing and Communication Center on campus. She can be reached at 255-8967.

### Graduate Bulletin

**Course enrollment:** Feb. 12 is the last day for returning course enrollment forms. Bring them to Sage Graduate Center.

**Unregistered doctoral candidates** who wish to avoid paying the \$200 active-file fee for the spring term must have met all degree requirements by Feb. 12. This includes the final defense and the filing of two acceptable copies of the dissertation in the Graduate School office. These students will receive a May degree.

**New students** must return the completed nomination of committee form to the Graduate School by Feb. 12.

**Smithsonian Institution Fellowships:** Deadline for applications for Smithsonian Institution Fellowships is Feb. 15. The institution offers funding for short- and long-term doctoral and post-doctoral research done at the Institution in earth sciences, biology, anthropology, archaeology and other areas. See Fellowship Notebook or CUINFO for details.

**Tax Information for Graduate Students** is the topic of the December 1987 issue of the Sage Graduate Newsletter. Copies are available in the fellowship and financial aid office, Sage Graduate Center.

## SPORTS

## Friday, 2/5

Women's Basketball, at Princeton, 7 p.m.  
Men's Polo, at Skidmore, 7 p.m.  
Men's Basketball, Princeton, 7:30 p.m.  
Women's Polo, Yale, 7:30 p.m.  
Men's Hockey, at Clarkson, 7:30 p.m.

## Friday-Saturday, 2/5-2/7

Women's Hockey, at Concordia Invit.

## Saturday, 2/6

Men's Squash, Pennsylvania, 11 a.m.  
Men's Swimming, Brown, noon  
Men's Gymnastics, Kent State, 1 p.m.  
Women's Gymnastics, Kent State and Rhode Island, 1 p.m.  
Men's Wrestling, at Harvard, 1 p.m.  
Men's Squash, Rochester, 3 p.m.  
Women's Swimming, Brown, 3 p.m.  
Men's Jr. Varsity basketball, Binghamton, 3:30 p.m.  
Women's Basketball, at Pennsylvania, 7 p.m.  
Women's Polo, at Skidmore, 7 p.m.  
Men's Basketball, Pennsylvania, 7:30 p.m.  
Men's Hockey, at St. Lawrence, 7:30 p.m.  
Men's Polo, Yale, 8:15 p.m.

## Sunday, 2/7

Men's Track, at Army Invit., noon  
Women's Track, at Army Invit., noon

## Monday, 2/8

Men's Jr. Varsity Basketball, at Morrisville, 8 p.m.

## Wednesday, 2/10

Men's Jr. Varsity Basketball, at Ithaca College, 4 p.m.  
Men's Squash, at Rochester, 4 p.m.

## Last week's scores

[X-Y Overall record to date]

Men's Basketball [9-7]  
Cornell 68, Columbia 46

Women's Basketball [8-6]  
Cornell 65, St. Lawrence 54  
Columbia 70, Cornell 57

Men's Hockey [13-4], ECAC [10-4]  
Cornell 8, Princeton 2  
Cornell 8, Army 3

Women's Hockey [7-7]  
R.I.T. 2, Cornell 1  
Princeton 4, Cornell 3, (OT)

Men's Fencing [3-6]  
4th at Penn State Invitational

Women's Fencing [0-9]  
5th at Penn State Invitational

Men's Gymnastics [5-3], NAGL [2-1]  
Syracuse 256.20, Cornell 210.15  
Cortland 197.60, Cornell 171.80

Women's Gymnastics [9-1]  
Cornell 170.35, Cortland 161.2  
Cornell 169.9, Massachusetts 168.6

Men's Polo [8-5]  
Virginia 20, Cornell 7

Women's Polo [7-4]  
Cornell 21, Virginia 4

Men's Swimming [2-6], EISL [0-5]  
Yale 118, Cornell 97

Women's Swimming [4-3]  
Cornell 145, Yale 123

Men's Track [1-1]  
Cornell 85, Syracuse 69

Women's Track [0-2]  
Syracuse 85, Cornell 60

Men's Squash [12-4]  
Cornell 9, Amherst 0  
Cornell 8, Stony Brook 1  
Trinity 7, Cornell 2  
Yale 8, Cornell 1

Wrestling [1-3]  
Cornell 33, Yale 6  
Ithaca College 23, Cornell 16

## New method for growing seedlings to be discussed at Feb. 19 forum

A method for growing bedding plant flower seedlings in less than half the usual time by using specially designed, computer-controlled "growth rooms" will be discussed here on Feb. 19 during the Cornell Research Highlights Forum.

The conference is sponsored by the Floriculture Interdepartmental Program in the College of Agriculture and Life Sciences for members of the floricultural industry, especially those who specialize in producing bedding plant seedlings.

The Feb. 19 event is the first in a series planned as part of Cornell's continuing effort to bring floriculture leaders up to date on new research findings, according to Thomas C. Weiler, who is organizing the forum. Weiler is an associate professor of floriculture in the Department of Floriculture and Ornamental Horticulture in the College of Agriculture and Life Sciences.

The new "accelerated plug production technology" is being perfected by a team of researchers headed by Robert W. Langhans, professor of floriculture. Langhans said that it takes 40 to 50 days to grow seedlings from impatiens seeds under commercial conditions, but only 18 days using the new Cornell method.

Growing seedlings faster and more uniformly will cut costs and increase yields for flower growers, he said. Greenhouse and nursery products produced in New York State in 1986 had a cash value of about \$190 million, representing an important segment of the state's \$2.5 billion agricultural industry. Production is concentrated on Long Island and other areas close to urban centers around the state.

Under the new method, seeds are sown into soil "plugs" shaped like small ice cubes in plastic trays and are germinated in growth rooms where computers control several key environmental factors vital for

plant growth, including temperature, levels of carbon dioxide to enhance photosynthesis, light levels and irrigation of fertilizer solutions.

The trays used in Cornell experiments have up to 512 plugs per tray, an equivalent of 350 plugs per square foot of tray, thus making it possible to produce a large number of seedlings in a small area. Each plug is capable of producing one healthy seedling.

Once seedlings are three-quarters of an inch tall, they are shipped to growers throughout the country who continue growing them in greenhouses until they are ready for sale in retail packs, Langhans explained.

"The new production system makes it possible to grow uniform, high-quality seedlings in record time," he said. "Thus far, we have tested only impatiens, but the same technology should work for scores of other kinds of popular flowers."

David R. Dreesen, a graduate student in floriculture who has been working on the method under Langhans' direction, will describe the method now being perfected.

In addition, the implications of the new technology will be discussed by several Cornell faculty members who have worked together in this research project: Langhans, agricultural engineer Louis D. Albright, plant pathologist R. Kenneth Horst, entomologist John P. Sanderson and agricultural economist Gerald B. White. Weiler will be the moderator of this session.

The forum will get under way at 10 a.m. in the Kenneth Post Laboratories on campus, with introductory remarks by Professor Langhans. Registration will begin at 9 a.m. For more information about the program, contact Weiler in the Department of Floriculture and Ornamental Horticulture. His telephone number is 255-2166.

— Yong H. Kim

Theory Center *Continued from page 1*

"This project will have wide-reaching economic development potential through the technology transfer it will create," said Vincent Tese, chairman and chief executive officer of the UDC.

"Over the last five years, Governor Cuomo has emphasized our need to foster new, advanced technologies and to lead in the development of emerging industries. The refined plan for Cornell's new center hopefully will accomplish this."

Concern over the environmental and aesthetic impact of the building on Cascadilla Gorge was raised last year by a wide range of local government bodies, civic groups, Cornell faculty and staff, and citizens. The objections to the building were highlighted at an August public hearing conducted by the UDC.

Subsequently, the city's Planning and Development Board unanimously recommended opposing the earlier design. Last October Burness announced at a press conference that, based on discussions with Ithaca Mayor John C. Gutenberger, Ithaca Planning and Development Board Chair Susan Blumenthal and environmentalist Betsy Darlington, the university had agreed to ask the architects to move the building away from the gorge and onto the site of Grumman Hall, while preserving the essential program elements to be housed in the facility. The latest plan is the result of those discussions.

In presenting the new plan, architect Robert Siegel said, "This building has an obligation to be an important work of architecture, and the site has led us to a shape that has achieved that end." He pointed out that the building presents a more complex and interesting shape to Cascadilla Gorge and also creates a dramatic entrance for the southeastern end of campus.

"This is a far better design than the original, primarily because it's strongly connected to Upson Hall at all levels," said the Engineering College's dean, William Streett. "It thus allows much more effective working relationships among the faculty in the two buildings."

The Theory Center's director, Physics Professor Kenneth G. Wilson, pointed out that the new building is an important key to the future success of the center.

"The Theory Center has suffered from its inception in not having adequate space for its operations," he said. "This lack of space

has not only hindered the center's operations, but also has prevented other important interdisciplinary programs from getting started.

"Cornell is currently the only one of the five national supercomputer centers without adequate space, and this continues to be of serious concern to the funding agencies involved."

Local leaders who were influential in persuading the university to consider moving and redesigning the project were shown the building plan last week within hours of its presentation to the Campus Planning Committee and the Facilities Review and Advisory Committee, both of which endorsed the proposed design concept.

"Each of the criteria that I asked for in my discussions with Cornell has been addressed in this new plan," Gutenberger said. "I am very pleased that the university not only listened to the concerns of the community, but clearly took them to heart."

"This is a very handsome building," he said. "Cornell and the architects should be congratulated for creating a building that

not only preserves the natural gorge setting, but serves the critical long-term facilities needs of the College of Engineering."

Blumenthal said, "I think that this new design reflects a significant response from Cornell to the concerns of the Planning Board and the Ithaca community. I believe the new proposal will largely remedy the worries that I had about the proposed building's impact on the gorge and its environs."

"The building's reduced height and more interesting shape are a great improvement over the monolithic structure that was previously proposed," she said. "I'm looking forward to seeing the details of the facade and how the architects will handle the fenestration and materials to reduce the apparent size of what is still a relatively large, long structure."

"In addition, I'm pleased that the process of working together also produced a building that will work well for Cornell and will facilitate the research work of the Theory Center and the engineering college. This is a much better building for all concerned," she said.

Darlington said that she is "delighted with the way it looks. The building makes creative use of its location near the gorge, and it's a truly stunning structure. Assuming that the exterior is an attractive material, it should be appealing from all directions, even from the gorge. I'm also very pleased that Grumman Hall will not be disrupted. The architects and Cornell have my heartfelt thanks and congratulations."

As a result of the trustees' action, the architects have begun detailed design work, which will include specifications for the windows and outer covering of the brick and masonry building. It is anticipated that ground will be broken on the structure by late summer or early fall, said Burness.

The Cornell Theory Center, now housed in temporary quarters on campus, was established in 1985 with a National Science Foundation grant. It currently receives major support from the NSF, Cornell, the State of New York, International Business Machines Corp., Floating Point Systems and the associates of the Corporate Research Institute, among others.

— Dennis Meredith



Snow covering Cornell Plantations last week.

Claude Levett