

Cornell CHRONICLE

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Scott nominated to serve as acting VP for computing

Norman Scott has been nominated to be acting vice president for computing and information systems, subject to trustee approval. Scott is director of research for the College of Agriculture and Life Sciences, and director of the Cornell Agricultural Experiment Station.

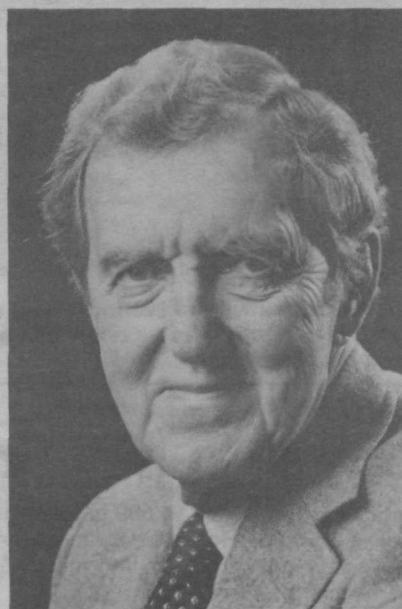
He replaces Kenneth King, who has become president of EDUCOM, a national organization that helps coordinate computing and communications development and information exchange among more than 500 colleges and universities.

In the new post, which Scott assumes in addition to his duties at the Agriculture College, he will coordinate the efforts of the Cornell National Supercomputing Facility, academic computing and administrative computing within computer services. He also will aid communications among the computing facilities and the deans and their colleges.

"Norm Scott has been an outstandingly successful manager at the departmental level and at the Agricultural Experiment Station," Provost Robert Barker said. "He is also knowledgeable about computing in an academic environment. During this interim period, I have asked Dr. Scott to focus on managing the enterprise to sustain its current initiatives, to work with the deans and others on university planning for computer systems and to facilitate interaction between units in computer services."

Barker also said that he is "awaiting responses from the deans on the makeup of the search committee to advise on the selection of Ken King's successor. In addition, I have invited Dr. Michael Luskin of Fisher Associates of Philadelphia, a highly respected consulting firm in the field, to assist us in the search. A job description and an initial search plan should be forth-

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Edmund S. Muskle will join Cornell's celebration of the bicentennial of the U.S. Constitution Sept. 17 at 7:30 p.m. in Bailey Hall. The even-

New Institute for Public Affairs set for fall '88

Cornell trustees have approved creation of the Cornell Institute for Public Affairs and a renovation of the east wing of Olin Hall.

At meetings of their Executive, Building and Properties, and Academic Affairs committees last week at the Cornell Medical College in New York City, trustees also approved:

- Election of three A.D. White Professors-at-Large.
- Title changes for three vice provosts, who will now be vice presidents.

Government Professor Benjamin Ginsberg, who will direct the Institute for Public Affairs, said that he is hoping to be able to admit the first class as early as September 1988 and that he is "aiming for roughly 10 students the first year."

Trustees had given conditional approval to creation of the institute during their meeting on May 30, but last week's action clears the way.

Ginsberg said the next step is to "identify faculty members who will be willing to serve on the various administrative committees that the institute will require and who, in addition, will be interested in advising public affairs students. This will, of course, be done in conjunction with the Graduate School and the colleges."

Then, "The institute will begin making itself known to potential students," he continued. "Actually, we've been quite heartened by the response after articles about the institute appeared in local media and the Cornell Alumni News: Probably, a couple dozen recent Cornell graduates already have expressed interest in doing further work at the university under the aegis of the institute. So we are very hopeful that, as news of the institute gets around the country, we'll continue to have a positive response."

Ginsberg noted that the institute will make use of existing faculty and courses. He explained how he feels that Cornell's institute will differ from the many other schools of public affairs around the country. The other schools "have what could be called a technocratic focus, that is, their emphasis is on what could be called the technical side of management, namely budgeting, accounting, microeconomic topics and so forth," the professor said.

"We feel that all these things are important, but they aren't all that there is to public affairs. The Cornell institute hopes to focus on such topics as philosophy, history and politics in order to produce public servants who have some sense of the historic context in which they're working, of the ethical dimensions of the decisions they're making and of the political environment in which they're acting."

"So we want a more humanistic public servant than we often see today," Ginsberg explained. "In other words, we want philosopher kings rather than Ollie Norths."

East wing of Olin Hall

The renovation of the east wing of Olin Hall is scheduled for completion in January 1989, but the starting date has not been set.

Senior Vice President James E. Morley Jr. explained that the chemical engineering building, which was erected in 1941 as an

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ILGWU archives now housed at Cornell

The archives of a union that played a vital role in shaping the American labor movement during the Great Depression have been moved to Cornell to be available to research scholars.

The International Ladies Garment Workers Union donated its records and established a modest endowment to help support maintenance of the collection, said Richard Strassberg of the School of Industrial and Labor Relations. The archives were moved to the university in July.

Once one of the largest unions in the United States, the garment workers — most of them women and many of them Italian

and Jewish immigrants in the early years — became involved in numerous labor and political movements during the first half of the 20th century, Strassberg said. The union continues to be made up of immigrant women, now from Asia and South America.

Poor working conditions and exploitation of immigrant workers in the garment industry gradually gave way to reforms mandated by state and national legislation. For example, in 1911 fire broke out in New York City's Triangle Shirtwaist factory, trapping garment workers behind locked doors and killing 145. The disaster led to new safety

regulations in industry.

The industry's sweatshop working conditions also helped shape New Deal policies in President Franklin D. Roosevelt's efforts to ease the Depression of the 1930s.

"In addition to documenting the history of the union and the garment industry, the records are important sources in the study of the CIO [Congress of Industrial Organizations], the American Labor Party, the Spanish Civil War, the New Deal, communist and international affairs, and Italian-American and Jewish-American affairs," Strassberg said.

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This photograph of women working in a garment factory is one of thousands of items in the archives of the International Ladies Garment Workers Union, which was moved to the School of Industrial and Labor Relations this summer.

Briefs

■ **MIT professor to discuss community development:** Melvin King, director of the Community Fellows Program at the Massachusetts Institute of Technology, will discuss "Community Development Through Community Control" at the Urban Affairs and Planning Colloquium Sept. 18 at 12:15 p.m. in 157 East Sibley Hall. King's books include "Access to Power: Black Politics in Boston."

■ **Advice on campus judicial system charges available:** Peggy J. David, judicial adviser for the campus judicial system, is available to all Cornell community members for free advice and counseling concerning charges made under the system. Her office is at 323 Sage Graduate Center, and her telephone number is 255-6492.

■ **Mushroom Festival at Cornell Plantations Sept. 19:** Bring mushrooms for identification to the Cornell Plantations' second annual Mushroom Festival from 1 to 5 p.m. on Sept. 19 at One Plantations Road. The charge is \$1 for members of Cornell Plantations. A \$2 donation is requested from non-members. Call 255-3020 from more information.

■ **Registration deadline is Sept. 18 for children's art program:** Four workshops for children ages 8 to 10 on the theme of improvisational movement in art and based on the Alexander Technique will be held at the Herbert F. Johnson Museum of Art on campus Sept. 23, Sept. 30 and Oct. 7 from 3:30 to 5 p.m. The instructor will be Sheila Yoshpe. For more information and to register, call 255-6464. There is a \$12 total fee for the four workshops.

■ **Sept. 18 is the deadline for Employee Day tickets:** The deadline for buying discounted football tickets and barbecue coupons for the annual Employee Day events Sept. 26 is Sept. 18. Tickets are available at the Grumman Ticket Office across from Teagle Hall and adjacent to the north entrance to the Parking Garage.

■ **Parking permit payroll deductions start Sept. 25:** Payroll parking permit deductions for faculty and exempt employees will start with their Sept. 25 checks; for non-exempt employees it will be Oct. 1. For more information call the Traffic Bureau, 255-PARK.

■ **Registration open for Experimental College:** Registration is open through Sept. 22 for classes in Cornell's Experimental College, which starts Oct. 5. Brochures are available at 538 Willard Straight Hall and at the Day Hall Information and Referral Center. For more information, call 255-7131.

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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 continuance of such equality of opportunity.



Bill Deats, painter and security guard at the Johnson Museum of Art, at work on a series of paintings of the stone buildings on campus. Deats was among those awarded grants by the Council on the Creative and Performing Arts. He will show his work next spring.

Claude Levett

Cornell to pay fines for radiation spill last April

The university will pay \$4,500 in fines to the New York State Health Department for violations of the public health law, including several related to an accidental spill of radioactive material during an experiment April 27 in Wing Hall.

A graduate student underwent decontamination procedures at Cornell Gannett Health Center last spring to remove traces of phosphorus-32 from his hand after about 10 millicuries of the moderately hazardous tracer were spilled in a third-floor biochemistry laboratory.

The spill prolonged a routine inspection

already being conducted by state health personnel. They found nine violations of the public health law, ranging from overexposure of one person to radioactive material and inadequate record-keeping to insufficient management control by the university's Radiation Safety Committee. That committee oversees all use of radioactive material in research and teaching laboratories.

James M. McCarthy, administrative tribunal representative for the Department of Health, issued the fine in a stipulated settlement with the university. He modified a

\$9,000 fine to \$4,500 on the condition that all violations are corrected by Jan. 1, 1988.

Judith A. Crawford, director of Cornell's Office of Environmental Health, said the university began correcting the violations immediately after the incident, and that the fine will be paid.

The accidental overexposure is believed to have resulted from a sharp edge on the phosphorus-32 container, which tore a tiny hole in a glove worn by the graduate student.

— Roger Segelken

UAW threatens demonstration

The union that represents university service and maintenance workers said Wednesday it will propose to its members some type of public demonstration during the upcoming Parents' Weekend unless the university makes a new wage proposal before Thursday evening.

Al Davidoff, president of United Auto Workers Local 2300, said that the union's stewards and strike committee were scheduled to meet Wednesday evening to prepare plans "to communicate our issues to the parents who will visit the campus this weekend." Parents' Weekend begins on Friday.

These plans will be presented to union members Thursday and, "barring a new offer from the university, we will put our weekend plans into operation," Davidoff said.

He added that he could not disclose what the union might do until his members meet. He said he told Peter Tufford, the university's manager of employee relations, on Tuesday that the union is considering a weekend action if the university does not present a new wage proposal this week.

Tufford said that he returned Davidoff's call but nothing was said about a possible weekend demonstration by the union.

Asked if the university would present a new wage proposal this week, Tufford said, "Certainly not. We have a bargaining session set for Monday. If any new offers are to be made by the university or the union, that is where they should be presented. For the union and the university to present a proposal in any other way could be bargaining in bad faith."

Tufford said he asked Davidoff if the union had any new wage proposal and the answer was no.

Cornell and the UAW have been negotiating since February on a one-year wage package for about 880 workers, and the union has authorized a strike while agreeing to continue negotiations. The next bargaining session is scheduled for Sept. 21, the first since Aug. 17. A federal mediator will be present as he has been in the last few meetings.

— Albert E. Kaff

Scott Continued from page 1

coming in the weeks ahead."

Scott came to Cornell in 1959 as a graduate assistant in agricultural engineering. He received his Ph.D. in 1962, and has remained at Cornell, progressing through the academic ranks to become a professor of agricultural engineering in 1976. He also has been chairman of the Department of Agricultural Engineering and has served on numerous Agriculture College and university governance committees.

His recent honors include election as a Fellow of the American Society of Agricultural Engineers and four ASAE research paper awards, the last in 1987. His latest research has concentrated on bioengineering of agricultural and biological systems, including electronic applications to agriculture such as remote monitoring of livestock.

— Dennis Meredith

Obituaries

Carl S. Pederson, a microbiologist at the New York State Agricultural Experiment Station at Geneva from 1925 until his retirement in 1967, died Sept. 2. He was 90.

Pederson was known for his pioneering work on fermented foods, including findings that standardized the production of sauerkraut and pickles and are considered classic in field. He also made extensive contributions to improving the production of fruit juices. He was the author of more than 200 scientific papers.

Pederson was born in South Milwaukee, Wisc., and earned a bachelor's degree in 1924 and a master's degree in 1925 from the University of Wisconsin. He received a doctorate from Cornell in 1929.

Survivors include his wife Marian of Geneva; two daughters, Jane Williams of Tucson, Ariz., and Carol Palmer of Red Creek, N.Y.; a son, Dr. Donald P. Pederson of Marshfield, Wisc.; and numerous grandchildren, great grandchildren, and nieces and nephews.



Study says university underreports research expenditures

Cornell drastically underreports the level of financial resources it devotes to research and scholarship, an economist's study of the university's accounting methods has indicated.

According to Richard Schuler, a professor of economics and of civil and environmental engineering, Cornell's record-keeping procedures are not unusual among major research universities, meaning that universities' financial support is far more important to the advance of science and technology in this country than is now appreciated.

Schuler said that this under-reporting of research expenditures arises for three major reasons:

- With rare exceptions, only activities that are funded directly by external agencies such as the federal government or foundations are counted as research.

- A wide range of university administrative, overhead, and operating and maintenance costs are not fully allocated.

- The full "opportunity cost" of using the university's buildings and land for research purposes is not included in its estimates of research or teaching costs.

"Opportunity costs" are the costs to Cornell of investing in buildings and other capital assets needed for research, as compared to investing the same amount of money in a revenue-yielding endowment portfolio, Schuler said. The opportunity costs of buildings and land must be included in research and teaching costs if Cornell is to continue to renew its facilities on a sustainable basis, he said.

Schuler said, "Taken together, not only do these factors suggest a much larger research effort for society than previously estimated, but also they imply an average overhead rate on all research and scholarship at Cornell that is much greater than the cost recovery rates allowed by federal

agencies."

The "average overhead rate" is the percentage that must be added to the direct expenditures on a research grant in order to offset overhead costs such as energy, maintenance, administration, and depreciation of buildings and equipment. Federal funding agencies allow a set percentage of the cost of doing research for overhead cost recovery.

Overhead costs now 63 percent

This approved federal rate was 63.6 percent for 1985-86, meaning that for every \$100,000 that was requested for federal research at Cornell, an additional \$63,600 could be included in the grant request for recovery of indirect costs.

According to Schuler, if these overall cost patterns for Cornell hold for the type of research supported by federal grants, seeking additional federal support under the current system may be a losing proposition, with the difference having to be made up from other sources such as alumni, private gifts and tuition.

"Trying to balance the budget through even greater federal research grant support would be like [economist and Cornell professor Alfred Kahn's tongue-in-cheek quip about] 'losing money on every sale but trying to make it up in volume,'" Schuler said.

Cornell Provost Robert Barker said that "Professor Schuler's study confirms what many of us have suspected for some time: that current federal guidelines for reimbursing universities have institutionalized what is clearly an incorrect and inappropriate basis for assessing the cost of university research."

Two different research functions

Schuler's study consisted of two basic facets: gathering data on the amount of time faculty devote to research and scholar-

ship, and analyzing the true cost of that research.

According to Schuler, Cornell's accounting practice is to include direct research costs in two broad categories: "research," predominantly funded externally, and "instruction and departmental research."

The result is that Cornell has "only a crude idea how the costs that are included in the instruction and departmental research category are divided between these two separate but related functions," he said.

Schuler conducted a survey of how faculty in Cornell's academic units actually divide their time between teaching and research, and then computed the real cost of that research in salaries, wages, benefits, scholarships, fellowships, equipment, administrative support, utilities, maintenance, and library, building and land expenditures.

He found that Cornell reports only 59 percent of its estimated research costs in its private, or endowed, units and 65 percent in its state-supported, or statutory, units.

However, Cornell and other universities also do not include in their accounting the opportunity costs of buildings and land, Schuler said. For instance, universities usually accept the government's formula for overhead calculations. This formula assumes a 50-year lifetime for buildings and allows an annual use rate of 2 percent of the original cost of the building.

This allowance is far short of setting enough money aside to replace a building with a new one, plus allowing a return, after a more realistic life of between 20 and 50 years, depending on the structure's use. For instance, "wet" laboratories, because of their extensive plumbing and other fixtures, have a much shorter lifetime.

When the opportunity costs of buildings and land are added, Cornell reports only 53 percent of the cost of research that it actu-

ally performs, Schuler found. Furthermore, it is important to assign an interest cost to Cornell funds tied up in buildings and land, he said. Only in that way will investments in endowment and investments in real property be treated symmetrically.

"Thus, based on this sample of one, it appears that universities might be credited as the vehicle for providing 50 to 90 percent more research expenditures in the U.S. than is currently attributed to them," Schuler said.

He cautioned that his findings are preliminary and that more precise studies are needed, including comparisons with other universities. However, he said it is clear that the federal government's approved overhead recovery rate of 63.6 percent for research grants is far short of the actual indirect cost rate on all research at Cornell.

According to Schuler, this rate should be about 95 percent for Cornell to break even, if its entire program of research and scholarship were funded externally.

"We've always known that teaching costs were not fully met by tuition," he said.

"And now we know that research is being heavily subsidized by alumni, private foundations, and individual and state funds as well."

As a result of his findings, Schuler called on Cornell and other universities to maintain more detailed records of research costs, and to use those records and their analyses to better understand the true costs of research and to change federal funding policy.

According to Schuler, his findings also highlight the fact that, although low overhead rates may seem to be in the short-term interest of faculty, who may see them as enhancing their competitiveness in obtaining grants, they "could lead the university into serious financial straits" in the long run.

— Dennis Meredith

Apple season opens



Photographs by Claude Levett



Andy Boehm, left, reaches for that apple in Cornell's fields near East Hill. Like co-worker Connie O'Brian, right, he has been working in the orchards for the past five years.

American social mores charted in book about Ann Landers

It began as an exercise in linguistics, in charting the end of America's sexual innocence through the writing that found its way into a family newspaper column. Some findings:

- "The word 'sex' in the sense of 'having sex' appears only infrequently in the newspaper before the '60s."
- "The expression 'to make out' appears for the first time around '62."
- "Menopause was referred to as 'that time of life' or 'the change' about '64."
- "The word 'syphilis' was avoided until the mid '60s."
- "The word 'breast,' except in a scientific article, I don't really find before the mid '60s."
- "In the '70s, you start getting words like 'incest,' 'rape,' 'gays' — which replaces 'homosexuals,' and that term itself wasn't often used. In 1979, she uses the word 'condom' for the first time, and says that two years before she couldn't have written that column."

She is Ann Landers, the most widely read columnist in the world, with an estimated 85 million daily readers. Beginning with his preliminary interest in the relaxation of self-censorship in public newsprint, David I. Grossvogel, professor of comparative literature and romance studies, went on to spend four years reading every word in her three decades of columns.

The result is his sprightly new book, "Dear Ann Landers: Our Intimate and Changing Dialogue with America's Best-Loved Confidante," published by Contemporary Books. It reviews 30 years of American social mores as reflected in the column that Grossvogel can only describe as "a phenomenon."

A literary critic who is used to analyzing a culture through its texts and a long-time scholar of the modern theater, Grossvogel turned for his research in recent years to aspects of popular culture, including film and then mystery fiction. His Ann Landers project produced "essentially an analysis of changing perspectives over a third of a century," he said in an interview. "So many changes took place in this ever-accelerated pattern of cultural restructuring.

A column for teenagers

"When the column started in 1955, it was largely addressed to teenagers," Grossvogel discovered. "There were more letters from them than from adults. In those days — the days of what I call our innocence — parental authority was still a reality and Ann Landers would often push on the side of young people who felt there was too heavy a hand laid upon them.

"As the gradual revolt of the young

gained force in the '60s, she started attacking parents for being too lax in their discipline," Grossvogel noted. "Meanwhile, parents had become so bewildered that they started taking over the column because they were very much concerned about what to do with their children. So it became an adults' column — and she told them essentially that the fault lay with them."

But when Landers polled her readers about their attitudes as parents, she was in for a shock: "She had asked parents whether, given the chance to start over, would they again have children, and she anticipated that this would be simply a confirmation of what she thought, that is, that parenting is a natural instinct," Grossvogel recalled. "What she discovered was that some 70 percent of the people answering said that, if they had it to do over again, they would have nothing to do with having children."

Families still in turmoil

The poll was not scientific, Grossvogel noted, and other polls about the attitudes of parents are not always as negative, although the question has also been worded differently.

When Grossvogel interviewed Ann Landers — the pen name of Eppie Lederer, whose twin sister writes the competing "Dear Abbie" column — as a follow-up to his exhaustive research into her writing, he asked if she felt that parents were perhaps getting the upper hand again. She answered that "they're trying, and I'm doing my best to help them, but I don't feel the family structure is getting stronger."

Landers' attitude toward the relationship between men and women has been more than somewhat ambiguous, Grossvogel found. "She has always been of the impression that women are really the serious people in the human kingdom, and men are really only grownup children," he asserted. "And therefore it was incumbent upon the women somehow to take the men in hand. That involved staying at home and taking charge of the kids and of her derelict husband, otherwise making sure that he was comfortable after work and attending to his needs.

'Your body is your own'

"Her view of women in the marketplace is conditioned by her concern over the dissolution of the family, her feeling that children don't get enough 'quality time' from their parents," Grossvogel noted. "She finally concludes that you can't turn the clock back, because large numbers of women have been working since World War II.

"On the other hand, she was very suppor-

Dear Ann Landers



Our Intimate and Changing Dialogue with America's Best-Loved Confidante

DAVID I. GROSSVOGEL

A new book by Professor David Grossvogel looks at America's moral values reflected in the language and concerns of one of the country's most popular columnists.

tive of women in such areas as sexual harassment, which became an issue only much later. She very early on told women, 'Your body is your own.'

Grossvogel was clearly impressed with Ann Landers' energy and impact. "Sometimes when she gets a very desperate letter, she's been known to pick up the phone and call that person, as a kind of shock therapy; that's quite remarkable when you consider how busy this woman is," he recounted. "She works an 18-hour day, gives lectures around the country, belongs to a huge

number of foundations, accepts honorary degrees.

"Her column has a finger on the popular pulse," he added. "She has acquired an incredible battery of specialists, to become America's greatest referral agency. She receives 1,000 letters a day and writes every word of her column. She's the biggest corporate entity packed into a five-foot frame."

Grossvogel's book has had a pre-publication sale of 15,000 hard-cover copies.

— Irv Chapman

Turner helps plan next world conference on pan-African unity

Black intellectuals and artists from around the world will meet in the West African republic of Senegal next year to renew efforts towards greater understanding among African nations and between Africa and the world.

"These intellectuals from Africa and of African descent believe that it is vital for Africa to avoid the fragmentation that has taken place between countries in South America and to develop a truly vigorous Pan-African movement," said James E. Turner, associate professor in African studies and one of the planners for the 1988 conference.

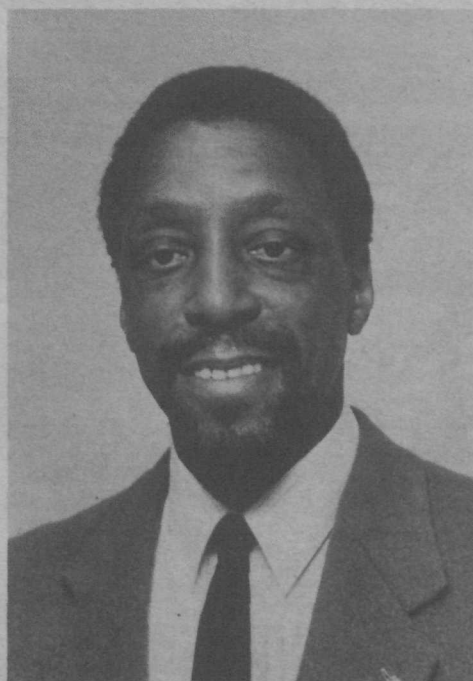
The 1988 Senegal meeting already is four years behind schedule, in part because of the very problems that are wrenching Africa apart, including drought and food shortages, Turner said in an interview in his office, which is lined with books and posters from Africa.

"The desert is spreading in Africa, and populations from North Africa are moving south as the desert spreads," he said. "The last in this series of conferences was held in 1980, and we should have met again four years later, but Africa's problems were too great to organize such a major world conference.

"Now Senegal has recovered, as have some other countries, and the economy is stronger."

Art, economics and politics

Turner, who specializes in social movements in Africa and the United States, is one of five Americans appointed to repre-



James E. Turner

Charles Harrington

ent North America in planning the Senegal seminar on African art, culture, history and political development.

"We will be looking at Africa from a global perspective, not just as a region," Turner said. "We will study how art and culture have impacted economic and political organizations in Africa and vice versa. In the West, the tendency is to think of art as something apart from economics and

politics. But in Africa, there is an interplay between art and society in a way which influences economics and politics.

"It is important for black scholars from around the world to speak to each other. Such interchange was dormant under colonialism in Africa. We want to consider how African scholars in developed countries such as the United States can contribute to the development of Africa."

Continuing Du Bois' work

The seminar will be attended by writers, artists, poets, dramatists, sculptors, musicians, historians, economists, sociologists, experts on international relations and government delegates from Africa, Europe, the Caribbean, and North, Central and South America.

Turner said the Senegal conference will continue the Pan-African pioneering work of Dr. W.E.B. Du Bois, an African-American who urged the liberation of African colonies at the first Pan-African conference held in London in 1900. He continued his struggle until his death in Ghana in 1963, a few months after becoming a citizen of that nation.

Du Bois' Niagara movement, founded in 1905, evolved five years later into the National Association for the Advancement of Colored People, one of the first organizations in the United States dedicated to improving the life and status of blacks.

Turner, who was the first director of Cornell's Africana Studies and Research Center, said later leaders in the Pan-African movement included such historic figures as

Emperor Haile Selassie of Ethiopia and Leopold Sedar Senghor, a former member of the French National Assembly who became Senegal's first president.

Turner received an honor this summer when he visited Gambia, a West African nation shaped like a finger and surrounded on three sides by Senegal.

The Kinte Foundation, which Alex Haley endowed from earnings on his book "Roots," selected Turner for one of its six awards presented for outstanding contributions to African studies. Turner was the only American honored; the other winners came from Europe, Brazil and the Caribbean.

"That award and my selection to help plan the Senegal seminar recognize the work that we are doing here at Cornell at the Africana Center," he said.

Focus on South Africa

One focus during the 1988 conference will be on South Africa, Turner said.

"The critical concerns in South Africa relate not only to apartheid but also to the realization that South Africa now is going into its second year of military siege," he said.

"What other country has such a record? We are concerned about South Africa's growing military might and its threat of hegemony and its crossing over its own borders into neighboring countries. South Africa has developed a potential for nuclear arms, and some observers say it already has built nuclear weapons."

— Albert E. Kaff

Kindergarten's no place for schooling, expert says

Kindergarten classes should put less effort into reading and math and spend more time just having fun, with their effectiveness judged by the number of "smiles per hour," according to a human development expert here.

Pre-school and kindergarten programs should be removed from the jurisdiction of elementary school principals, and a special teacher education program should be created for nursery and kindergarten teachers, added Irving Lazar, professor of human service studies.

"Why should people trained to work with fifth graders go to work with 5-year-olds?" Lazar asked during an interview. "There's no reason why someone with a two-year degree can't work well with 4- and 5-year-

olds. At that age, the most important thing is providing warmth, caring and continuity."

"All we should ask of our kindergarten is that the children be happy," he added.

"We're pushing kids too hard too soon, and they're getting turned off to the whole process" of schooling.

'The graying of kindergarten'

School officials across the country, concerned about students who are failing in early grades, are raising the entrance age for kindergarten, often taking only children who turn 5 years old by September rather than November or December. Some experts are calling it "the graying of kindergarten," according to the Associated Press.

But Lazar, who directed a 1983 study on

how pre-school programs affect children's later academic achievement, said the entrance age is fine; it's the nature of kindergarten that's the problem.

According to Lazar, the problem began when school boards and legislatures decided to judge schools on the basis of standardized test scores. In response, school principals shopped for tests to make their students look better, encouraged teachers to structure their lessons according to the tests' questions and began emphasizing academic skills in kindergarten.

'Happy mayhem' in Japan

Now "Kindergarten is indistinguishable from first grade, and 5-year-olds don't do well in first grade," Lazar explained. "They're pushed to do things they're not ready to do, they fail and they get turned off." Many principals undoubtedly hope that raising the entrance age will increase test scores, he said.

But a better solution would be allowing kindergarten teachers to report directly to a district superintendent instead of an elementary school principal, isolating kindergarten programs from test-score pressures, Lazar added.

In Japan, where Lazar conducted research this summer, kindergarten is "happy mayhem," he pointed out. "There's no attempt to corral the children into a curriculum or force them to do the same thing at the same time. They don't expect kids to do much academic until the intermediate grades, and then they put the pressure on."

The same is true in New Zealand, where students start school with a big welcoming ceremony on their fifth birthday, Lazar added. In the early grades, children advance to a new class when they are ready, and there is no stigma of failing. New Zealand has an illiteracy rate of less than 1 percent; in the United States, the illiteracy rate is more than 18 percent.



Claude Levett

'Get out of their way'

"It's not that their kids are smarter. It's that they have a smarter way of schooling their kids," Lazar said.

In the 1983 study that he directed, Lazar examined 27 different pre-school programs for children from poor families. All 27 improved children's later academic achievement, primarily, he believes, by increasing parental expectations and involvement.

"Most children love to learn. Instead of making it so structured, we should get out of their way," Lazar concluded. "Five-year-olds should be exposed to music and science. Read to them, let them see you reading. But if the kid doesn't like a story, put the book away and get another one. Don't turn learning into a chore."

— Mark Eyerly



Claude Levett

Sharing a swing at nursery school at the College of Human Ecology. Success at pre-school should be measured by 'smiles per hour,' not reading and writing skills, says a Cornell professor of human service studies.

Foundation funds new fellowships for Southeast Asia research here

The Rockefeller Foundation will fund a series of fellowships for scholars who wish to do research in the Southeast Asia Program here and at the Southeast Asia collection in Olin Library, one of the world's largest collections of Asian-language books and archival material on the region.

The \$225,000 grant will be made over a three-year period starting in 1988, according to Kenneth Prewitt, vice president of the Rockefeller Foundation.

Benedict Anderson, director of the university's Southeast Asia Program, said that competition for the awards is open to distinguished scholars in the humanities from all over the world.

Special attention will be given to applicants studying Burma or the Indochina countries of Vietnam, Laos and Cambodia, Anderson said. The deadline for applications is Dec. 1 of each year.

"This designation is an honor for Cornell as a whole and for the Southeast Asia Program and the superb John M. Echols Collection on Southeast Asia, long a magnet for visiting scholars," Anderson said. "We intend to make these fellowships a substantial contribution to the humanities in general as well as to Southeast Asian studies."

In a letter to the Rockefeller Foundation, Provost Robert Barker said the grant will

make Cornell's Southeast Asian resources, both archives and resident faculty, accessible to more scholars than before.

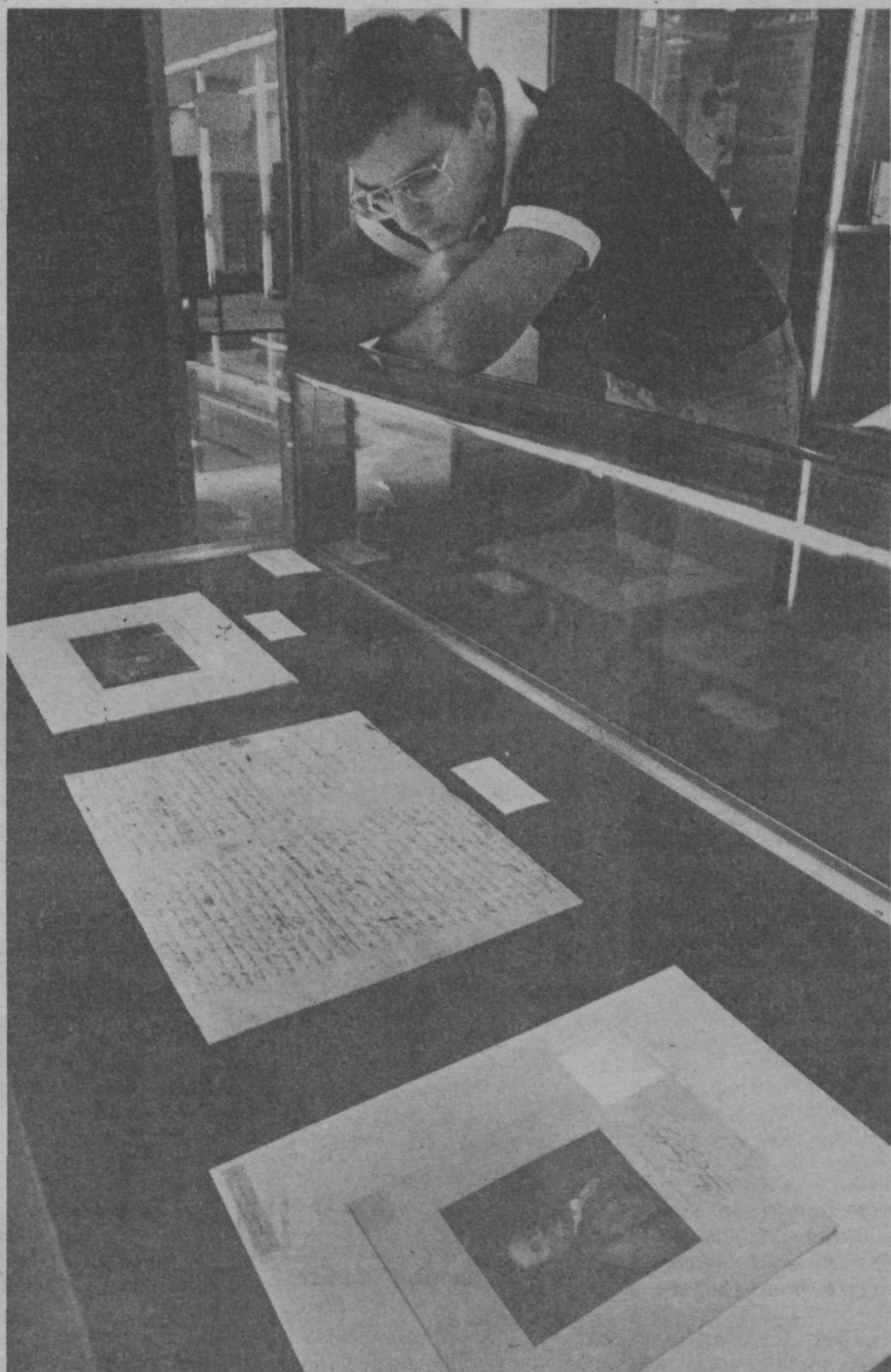
"I am enormously optimistic about the potential of this initiative to deepen and enhance our understanding of the cultures of Southeast Asia," Barker wrote.

Cornell's Southeast Asia faculty members have written a number of recent books, including George McT. Kahin's "Intervention," a study of American involvement in Indochina since World War II; James T. Siegel's "Solo in the New Order," an examination of Java's dual languages; and David Wyatt's "Thailand: A Short History."

Anderson said that fellows will be selected on the quality and significance of their research proposal, its relationship to the Echols Collection and their potential publications.

Competition is open to academic scholars and other qualified scholars and writers in the United States and other countries at the post-doctoral level. A fellow will receive a stipend of \$25,000 for the academic year, September to June, plus \$2,000 for relocation expenses. The university will award two full-year or several short-term fellowships annually.

Albert E. Kaff



Claude Levett

'The Constitution of the United States, 1787-1987,' on display at Olin Library includes a rough draft of Benjamin Franklin's speech to the Constitutional Convention asking the delegates to accept the Constitution. Steve Hadley, a senior English major from North Caldwell, N.Y., looks at the document.

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.

DANCE

Folkdancers

All events are open to the Cornell Community and the general public and beginners are welcome. Admission is free, unless stated otherwise.

Review of Beginners Night dances and request, Sept. 19, 7:30-10:30 p.m., North Room, Willard Straight Hall.

Instruction and requests, Sept. 26, 7:30-10:30 p.m., North Room Willard Straight Hall.

EXHIBITS

Johnson Art Museum

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

8 New York Artists: An exhibition organized by the Kenkeleba House, Inc., New York City, continues through Oct. 25, featuring the work of mature artists living and working on New York City's Lower East Side. The eight artists are: L. Alcopley, James Bohary, Herman Cherry, Dorothy Dehner, Reuben Kadish, Elaine de Kooning, Richards Ruben and Edvins Strautmanis. Approximately 60 paintings, drawings, prints and sculptures, spanning a 40-year period of their careers are presented.

Art Department Faculty Exhibition: Recent works of art by current and emeriti professors comprise this annual exhibition, which continues through Oct. 18. Works in various media, including watercolor, photography, sculpture and oil, are on view.

The following artists' work is exhibited in the show: Roberto G. Bertoia, Zevi Blum, Stanley J. Bowman, Victor E. Colby, James W. Cole, Norman D. Daly, Richard M. Estell, Kenneth Evett, John A. Hartell, Victor G. Kord, Jean N. Locey, James Owen Mahoney, Elisabeth H. Meyer, Eleanore A. Mikus, Gregory Page, Barry A. Perlus, Stephen F. Poleskie, Arnold Singer, Jack L. Squier and W. Stanley Taft.

A fully illustrated catalog accompanies the exhibition.

Two Icelandic Artists: An exhibition featuring two leading Icelandic women artists, Nina Tryggvadottir and Louisa Matthiasdottir. The show continues through Oct. 25.

Gallery Reopened: The George and Mary Rockwell Galleries of Asian Art on the fifth floor are now open to the public.

Corning Museum Trip: The Johnson Museum has arranged a one-day excursion to the Corning Museum of Glass on Oct. 3 to view an exhibition entitled "Glass of the Caesars." A luxury bus will leave the campus in the morning and return in late afternoon.

Tickets cost \$15 for Johnson Museum members and include round-trip transportation and admission to the museum and the show. Members may bring one guest at the same cost. Nonmembers should add an additional \$15 (for students) or \$25 (for nonstudents) to the basic cost, and may then enjoy a year's membership in the museum. Participants will receive a guided tour of the exhibition.

For more information or to reserve a place on the trip, call the Community Relations Department of the Johnson Museum. The telephone number is 255-6464.

Olin Library

"The Constitution of the United States, 1787-1987," a celebration of the Bicentennial of the signing of the Constitution on Sept. 17, 1787. The exhibit includes documents, books and pictures that trace the drafting and development of the Constitution and the controversies surrounding its interpretation. It will be display through Sept. 30, Monday-Friday 8 a.m.-noon; 1-5 p.m., Olin Library.

FILMS

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

Thursday, 9/17

"Boy," (1969), directed by Nagisa Oshima, with Fumio Watanabe and Tetsuo Abe, 8 p.m., Uris Hall.

"Cuba — In the Shadow of Doubt," (1986), a documentary directed by Jim Burroughs, Suzanne Bauman and Carol Polakoff, 8 p.m., Anabel Taylor Hall.

Friday, 9/18

"Little Shop of Horrors," (1986), directed by Frank Oz, with Rick Moranis, Steve Martin and Bill Murray, 8 p.m., Uris Hall.*

"Therese," (1986), directed by Alain Cavalier, with Catherine Mouchet, Aurore Prieto and Sylvie Habault, 7:15 p.m., Uris Hall.*

"The Secret of My Success," (1987), directed by Herbert Ross, with Michael J. Fox, Helen Slater and Richard Jordan, 8 p.m., Anabel Taylor Hall.*

"Round Midnight," (1986), directed by Bertrand Tavernier, with Dexter Gordon, Herbie Hancock and Martin Scorsese, 9:45 p.m., Uris Hall.*

Saturday, 9/19

"Therese," 10 p.m., Uris Hall.*

"The Secret of My Success," midnight, Uris Hall.*

"Round Midnight," 7:15 p.m., Uris Hall.*

Sunday, 9/20

"The Secret of My Success," 7 & 9:30 p.m., Uris Hall.*

"I Love \$," (1985), Holland, directed by Johan Van Der Keuken, documentary, co-sponsored with CCPA, 2 p.m., Johnson Museum.

Monday, 9/21

"Little Shop of Horrors," 8 p.m., Uris Hall.*

Tuesday, 9/22

"My Friend Ivan Lapshin," (1984), USSR, directed by Alexei Gherman, with Andrei Boltnev, Nina Ruslanova and Andrei Mironov, 8 p.m., Uris Hall.*

"Learning to Dance in Bali," "Karba's First Years," "Bali Today," Margaret Mead Series film footage from the 1930's, sponsored by the Southeast Asia Program Film Series, 4:30 p.m., 310 Uris Library Media Center.

Wednesday, 9/23

"Psycho," (1960), directed by Alfred Hitchcock, with Anthony Perkins, Vera Miles and Janet Leigh, 8 p.m., Uris Hall.

LECTURES

A.D. White Professors-At-Large

"The Turks in Islamic History," Bernard Lewis, professor of near eastern studies, Princeton University, and director of the Annenberg Research Institute, Sept. 21, 4:30 p.m., Kaufmann Auditorium, Goldwin Smith Hall.

"America's Legacy to the World: The Bill of Rights and its Consequences," Geoffrey Marshall, fellow, The Queen's College, Oxford, Sept. 22, 4 p.m., Moot Court Room, Myron Taylor Hall.

"Disease and the Natural Environment: an evolutionary perspective," Sir Richard Southwood, pro vice chancellor of Oxford University, chairman of the Royal Commission on Environment Pollution, Sept. 23, 4:30 p.m., Hollis E. Cornell Auditorium, Goldwin Smith Hall.

Cornell Plantations

Topic to be announced, the William J. Hamilton Lecture Series, organized to further interest in gardening by providing information of scientific interest and value to northeastern gardeners, Sept. 26, 1:30 p.m., multi-purpose room of Robert Purcell Union. Co-sponsored by the Adirondack chapter of the American Rock Garden Society.

Law School

"Struggle Between the Branches: Managing the Separation of Powers," Assistant Attorney General Charles Cooper; Randall Rader, Senate Judiciary Committee; Robert Friedlander, Senate Foreign Relations Committee; Cynthia Farina, law school, Sept. 17, 4:15 p.m., Moot Court Room, Myron Taylor.

Near Eastern Studies

"In Potiphar's House: Early Interpretations of the Joseph Story," James Kugel, professor of Jewish studies, Harvard University, Sept. 17, 4:15 p.m., 360 Rockefeller Hall.

"The Ottoman Archives and the Modern Historian," Barnard Lewis, A.D. White Professor-At-Large, Sept. 22, 4:30 p.m., 374 Rockefeller Hall.

"Lexicography in the Computer Age: Aramaic and Beyond," Michael Sokoloff, professor of Talmud, Sept. 17, 4:15 p.m., 374 Rockefeller Hall. Co-sponsored by the Department of Modern Languages & Linguistics.

Southeast Asia Program

Topic to be announced, Zamakhsyari Dhofier, senior researcher, Sept. 17, 12:20 p.m., 102 West Avenue Ext.

"What I Did on My Summer Vacation," Benedict Anderson, professor of government/-SEAP Director, Sept. 24, 12:20 p.m., 102 West Avenue Ext.

Theoretical and Applied Mechanics

"Developments in Two Surface Plasticity Theory," David McDowell, Georgia Institute of Technology, Sept. 23, 4:30 p.m., 205 Thurston Hall.

Women's Studies

"How Science Constructs Our Bodies: The Saga of the Sperm to the Egg," Emily Ahern Martin, professor and chairwoman, Dept. Anthropology, Johns Hopkins University, Sept. 22, 4:30 p.m., Kaufmann Auditorium, Goldwin Smith Hall. Co-sponsored by the Dept. of Anthropology and the James H. Becker Lecture Fund.

MUSIC

Bound for Glory

From Ireland via North Carolina, Bound for Glory welcomes Danny McGinley, who plays guitar and Irish pipes. Bound for Glory pres-



Andrei Boltnev in a scene from Alexei Gherman's "My Friend Ivan Lapshin" is showing Sept. 22 at 8 p.m. in Uris Hall.

ents 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 and children are welcome. The show can also be heard live on WVBR-FM93.

Cornell Folk Song Club

Bill Staines will give a concert Sept. 19, 8:30 p.m., Auditorium, Anabel Taylor Hall. Staines is perhaps best known for songs he has written, including "Roseville Fair," "My Sweet Wyoming Home," "All God's Critters Got a Place in the Choir," that others, besides himself, have recorded. He was a frequent guest on "A Prairie Home Companion," and he always packs the Commons Coffeehouse when he's on "Bound for Glory."

Advance tickets are \$5 and available at the Commons Coffeehouse in Anabel Taylor Hall at Cornell, Rebop Records in Collegetown and Borealis Books downtown.

Cornell India Association

A classical Hindustani vocal recital by Pandit Jasraj accompanied on the tabla (drums) by Ustad Zakir Hussain, Sept. 21 at 7 p.m., Barnes Hall auditorium. Also featuring Appa Jalgaonkar on the Harmonium, vocal support by Ms Durga Naval and Ms S. Jhaveri. Admission is \$4 and tickets available at Sangam restaurant, Collegetown and at the door. For reservation, call Mona Singh, 272-0447, or Devdatt Dubhashi, 277-2396. Co-sponsored by the South Asia Program, the CCPA and the ISPB.

Department of Music

Joyce Lindorff, harpsichord, Sept. 19, 8:15 p.m., Barnes Auditorium.

Bailey Hall Series

Andrew Watts will perform piano works by Mozart, Debussy, Schubert and Brahms on Sept. 22, 8:15 p.m. Bailey Hall.



friend Ivan Lapshin,' which Cornell Cinema

RELIGION

Sage Chapel

Rabbi Michael Paley, chaplain, Columbia University, will open the service at Sage Chapel, Sept. 20, 11 a.m.

Catholic

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

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

Jewish

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

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.

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

Fall Holidays: Selichot, Sept. 19, 11:30 p.m., Anabel Taylor Chapel; Rosh Hashanah, Sept. 24-25; Yom Kippur, Oct. 3; Sukkot,

Oct. 8-15; Simchat Torah, Oct. 16. Holidays begin sundown on the evening before.

Services and festive meal information is available from the Hillel Office, 255-4227. Because Statler Auditorium is unavailable, some services will be held in shifts. Seating is free, but more limited than usual. In order to guarantee a seat, a ticket must be picked up at the Hillel office.

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.

Zen Buddhism

Zazen meditation: Every Tuesday 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, phone Ian Dobson at 277-4364.

SEMINARS

Agricultural Engineering

"An Overview of Cornell Aquaculture Program," Michael Timmons, associate professor of agricultural engineering, co-director/aquaculture Program, Sept. 21, 4 p.m., 400 Riley-Robb.

Agronomy

"Root Mutants as a Research Tool," Richard Zobel, Dept. of Agronomy, Sept. 22, 3:45 p.m., 135 Emerson Hall.

Applied Mathematics

"Large Deviations For The Ginzberg-Landau Model," S.R.S. Varadhan, Courant Institute, Sept. 18, 4:30 p.m., 322 Sage Hall.

"Patterned Group Formation," Brian Straghan, Dept. of Mathematics, Sept. 25, 4 p.m., 322 Sage Hall.

Astronomy and Space Sciences

"Stability/Instability of the Solar System," Andrea Milani, University of Pisa, Sept. 17, 4:30 p.m. 105 Space Sciences.

Biological Sciences

"Protein Unfolding During Import of Proteins into Mitochondria," Michael Douglass, Dept. of Biochemistry, University of Texas Health Science Center, Sept. 18, 4:30 p.m., 125 Riley-Robb.

"Protein Structure and Function of Gene Families," Harvey Lodish, Dept. of Biology, MIT, Sept. 24, 4:30 p.m., 204 Stocking Hall.

Biophysics

"Regulation of Neuronal Structure By Neurotransmitter and Second Messengers: Video Microscopic Studies on Cultured Neurons," Stephen Smith, Section of Molecular Neurobiology, Yale University, Sept. 23, 4:30 p.m., 700 Clark Hall.

Boyce Thompson Institute

"Oligosaccharins Are Able To Regulate Growth and Development as Well as Defense," Peter Albersheim, director of Complex Carbohydrate Research Center, University of Georgia, Sept. 23, 2 p.m., 146 Morrison Hall.

Chemistry

"Recent Advances in Organic Photoimaging Systems," C. Grant Willson, IBM Almaden Research Center, Sept. 21, 11:15 a.m., 125 Baker Laboratory.

"Recent Advances in the Chemistry and Spectroscopy of Soluble Polysilane Derivatives," Robert D. Miller, IBM Almaden Research Center, Sept. 21, 4:40 p.m., 119 Baker Laboratory.

"Molecular Ordering in Semiflexible Polymers," Do Y. Yoon, IBM Almaden Research Center, Sept. 21, 11:15 a.m., 125 Baker Laboratory.

"Chemical and Mechanical Properties of Metal - Polymer Interfaces," Paul Ho, IBM Yorktown, Sept. 22, 4:40 p.m., 119 Baker Hall.

Computer Services

"MacRegistrar and PC - Registrar: Course Management Software," J. Robert Cooke, E.T. Sobel, and Octavio Reis Neto, Agricultural Engineering, Sept. 17, 12:20-1:10 p.m., 100 Caldwell Hall.

"Macintosh Digital Image Analysis System," Mark Sorrells and Chris Shanahan, Plant Breeding and Biometry, Sept. 24, 12:20-1:10 p.m., 100 Caldwell Hall.

Ecology and Systematics

"Disease and the Natural Environment: an evolutionary perspective," Sir Richard Southwood, Linacre Professor of Zoology, Oxford University, Sept. 23, 4:30 p.m., Hollis E. Cornell Auditorium, Goldwin Smith Hall.

"Contributions of population biology to a science of conservation," Daniel Simberloff, Dept. of Biological Sciences, Florida State University, Sept. 28, 4:30 p.m. Morison Seminar Room, A106Corson/Mudd Halls.

Floriculture and Ornamental Horticulture

"Beebe Lake Restoration," Robert Cook, director of Cornell Plantations, Sept. 17, 12:15-1:15 p.m., 404 Plant Science.

"Landscape Techniques Utilized in the Gardens of Japan," Tom Conley, MLA candidate, Sept. 24, 12:15-1:15 p.m., 404 Plant Science.

Food Science and Technology

"Food Science in Mexico: An Overview," Arturo Inda, Dept. of Food Science, Sept. 22, 4:30 p.m., 204 Stocking Hall.

History and Philosophy of Science and Technology

"An Unphilosophical Physicist's Philosophy of Physics," Helge Kragh, Program in the History and Philosophy of Science and Technology, Sept. 23, 4:30 p.m., 165 McGraw Hall.

Immunology

"B-Lymphocyte Development in the Bursa of Fabricius," Michael Ratcliffe, Dept. of Microbiology and Immunology, McGill University, Montreal, Sept. 18, 12:15 p.m., C-207 Schurman Hall.

International Nutrition

"Why Morality is Higher in Bottle-Fed Babies in North America," Allan Cunningham, M.D., attending pediatrician, The Mary Imogene Bassett Hospital, Cooperstown, and associate clinical professor of pediatrics, Columbia University, Sept. 17, 12:15 p.m., Faculty Commons, 1st Floor, New Wing, Martha Van Rensselaer Hall.

Microbiology

"Molecular Analysis of Feline Coronavirus Isolates," Joel Baines, Dept. of Microbiology, Immunology & Parasitology, College of Veterinary Medicine, Sept. 21, 12:15 p.m., G-3 Veterinary Research Tower.

"A Novel Approach to Enzyme Mechanism: Comparative Biochemistry and Molecular Genetics of Eubacterial and Archaeobacterial Enzymes," J.G. Ferry, Virginia Polytechnic Institute and State University, Sept. 17, 4:30 p.m., 124 Stocking Hall.

Topic to be Announced, Richard S. Zitomer, Dept. of Biological Sciences, SUNY Albany, Sept. 24, 4:30 p.m., 124 Stocking Hall.

Natural Resources

"The Sulfur and Nitrogen Pollutants of Acid Rain: Plant Nutrients or Toxicants?" Jay Jacobson, Boyce Thompson Institute, Sept. 18, 12:20 p.m., 304 Fernow.

Neurobiology and Behavior

"Optical Measurement of Neuronal Activity During the Aplysia Gill Withdrawal Reflex: A New Point of View," Larry Cohen, Dept. of Physiology, Yale University, Sept. 17, 12:30 p.m., Morrison Room, Corson/Mudd Hall.

"Translation of Sensory Signals into Commands for Saccadic Eye Movements: The Role of Superior Colliculus," David Sparks, Physiology and Biophysics, University Station, University of Alabama, Sept. 24, 12:30 txip.m., Morrison Room, Corson/Mudd Hall.

Ornithology

"Ornithological Research for Conservation in Britain," L.H. Campbell, Royal Society for the Protection of Birds, England, Sept. 21, 7:45 p.m., Fuertes Room, Laboratory of Ornithology, 159 Sapsucker Woods Rd.

"Raptor Field Identification: State of the Art, Future Direction," Bill Clark, author of 'A Field Guide to Hawks - North America,' Sept. 28, 7:45 p.m., Fuertes Room, Laboratory of Ornithology, 159 Sapsucker Woods Rd.

Peace Studies

"New Thinking or Newspeak: Soviet Foreign Policy Under Gorbachev," Richard Herrmann, Mershon Center, Ohio State University, Sept. 17, Noon, G-08A Uris Hall, brown bag lunch.

Plant Biology

"The Molecular Basis for Antibiotic Resistance in Nicotiana Chloroplast Mutants," Hillel Fromm, Weizmann Institute, Israel, Sept. 18, 11:15 p.m., 404 Plant Science Bldg.

"Flooding Tolerance in Plants," Harold W. Woolhouse, A.D. White Professor-at-Large, Sept. 25, 11:15 p.m., 404 Plant Science.

Plant Pathology

"Characteristics of Botrytis Cinerea Isolates Sensitive and Resistant to Vinclozolin, Benomyl, and/or Captan, Mo Yang, Sept 22, 4:30-5:30 p.m., 404 Plant Science.

"Ultrasonic Changes Associated with Induced Systemic Resistance of Cucumber to Anthracnose Disease," Xiao-Ling Xuei, Sept. 22, 4:30-5:30 p.m., 404 Plant and Science.

"Cellular localization and characterization of pectic enzymes from Erwinia carotovora subsp. atroseptica," Helga George, Sept. 29, 4:30-5:30 p.m., 404 Plant Science.

Physiology

"Reproductive Stimulators and Inhibitors Effecting Natural Populations of Small Animals," Jack Cranford, Virginia Institute and State University, Sept. 22, 4:30 p.m., G-3 VRT.

Psychology

"A Colony of Mind: The Beehive as Thinking Machine," Thomas Seeley, Sept. 18, 202 Uris Hall.

Topic to be announced, Richard Aslin, College of Arts & Sciences, University of Rochester, Sept. 25, 3:30 p.m., 202 Uris Hall.

Statistics

"Generalized Dispersion Matrics for Covariance Structural Analysis," Harold Henderson, biometrics section, Ruakura Agricultural Research Center, New Zealand, Sept. 23, 3:30 p.m., 100 Caldwell Hall.

Textiles and Apparel

"Fabric Structure Optimization for Composite Materials," David Brookstein, Albany International Research Corp., Sept. 22, 12:20 p.m., 317 Van Rensselaer Hall.

"Pesticides and Protective Clothing," Art Schwoppe, A.D. Little, Inc., Sept. 29, 12:20 p.m. 317 Martha Van Rensselaer Hall.

Vegetable Crops and Pomology

"Agriculture and Health: A Challenge for Specialty Crops," Katherine Clancy, Human Nutrition, Syracuse University, Sept. 17, 4:30 p.m., 404 Plant Science

"Helping People Eat Helpfully - Trends in Nutrition Education, Carole Bisogni, Dept. of Nutritional Sciences, Sept. 24, 4:30 p.m. 404 Plant Science.

THEATRE

Theatre Cornell

"Aunt Dan and Lemon," by Wally Shawn, Sept. 20, 8 p.m., in the Drummond Lab Theatre, Lincoln Hall.

A reading of Shawn's play, with guest director Irene Lewis as part of Theatre Cor-

Latest dispatches from the construction front

The university's 10-year program to renovate aging buildings and to construct new laboratories, classrooms and other campus facilities is about one-third done and continues to draw attention from sidewalk superintendents.

What follows is an overview of current projects. Future projects include updated and new laboratories for the College of Engineering, among them the proposed Theory Center, home to Cornell's national supercomputer center; major renovations and additions to the College of Veterinary Medicine; renovations and additions to the libraries serving the School of Industrial and Labor Relations and the College of Agriculture and Life Sciences; additional campus housing; a new athletics field house; and a proposed alumni and admissions center. These are in addition to maintenance and rehabilitation projects that affect utilities and parking, among other infrastructures.

With a population of more than 25,000 people on an average business day, more than 200 major buildings; 9,100 parking spaces; 15 miles of streets and roads; more than 90 miles of water, sewer, and steam lines; and about 13,000 telephones hooked up to its own telecommunications system, Cornell is, in effect, Tompkins County's second largest city.

The following information includes the construction budget and source of funding, and a brief description of each of the current projects.

Performing arts center

\$20 million, gifts. The complex in Collegetown will house several performing areas, teaching and office spaces, and scene and costume shops. Included is a 500-seat proscenium theater for student productions and performances by visiting artists, flexible design theater to accommodate audiences of 150 to 180, dance studio with room for an audience of 150, and smaller laboratory theater for teaching undergraduate classes in acting, directing and design. Construction started in February 1986, and the center is approximately 48 percent complete; it is on schedule, and it is within budget and will be substantially complete in the summer of 1988. All the structural steel is in place, and installation of the exterior surface and the marble facade is continuing; installation of interior drywall partitions also continues.

Biotechnology research facility

\$32.5 million, New York State and the state's Dormitory Authority. The five-story, 100,000-square-foot facility for research in



Construction on the College Avenue bridge, scheduled for completion in November.

Claude Levett

molecular and cellular sciences will include laboratories and offices and provide a central facility on campus for biotechnology. The project, which was started in August 1986, is approximately 55 percent complete, on schedule, and within budget. Placement of precast exterior wall panels is nearly complete, and installation of window frames is continuing. Interior masonry and partition work is under way, as is the mechanical and electrical work. The project is scheduled for completion in June 1988.

Law school

\$20 million, gifts. The six-level addition at the south end of Myron Taylor Hall will provide more library, faculty and classroom

space. The project also includes extensive renovation of existing classrooms and office spaces. Work was started in June; foundation work is substantially complete and steel is being erected, and mechanical and electrical work also is proceeding. Completion is scheduled for late fall 1988.

Savage Hall

\$8.9 million, gifts and the New York State Dormitory Authority. Renovation of the existing building and construction of a 35,000-square-foot, five-story addition at the northeast end of building to provide laboratory and research space for the Division of Nutritional Sciences. Work was started in October 1986, and the addition

will be ready for occupancy in mid-October. Renovation of the existing four-story building will be completed in summer 1988. The overall project is approximately 65 percent complete, on schedule and within budget.

Space sciences

\$3.7 million, gifts and the New York State Dormitory Authority. Two stories were added to the existing four-story building, home of the Department of Astronomy, to provide space for computers, laboratories and offices. The project, which was started in December 1986, is substantially complete, on schedule and within budget. Personnel began moving into the two new floors earlier this month.

Statler Hall

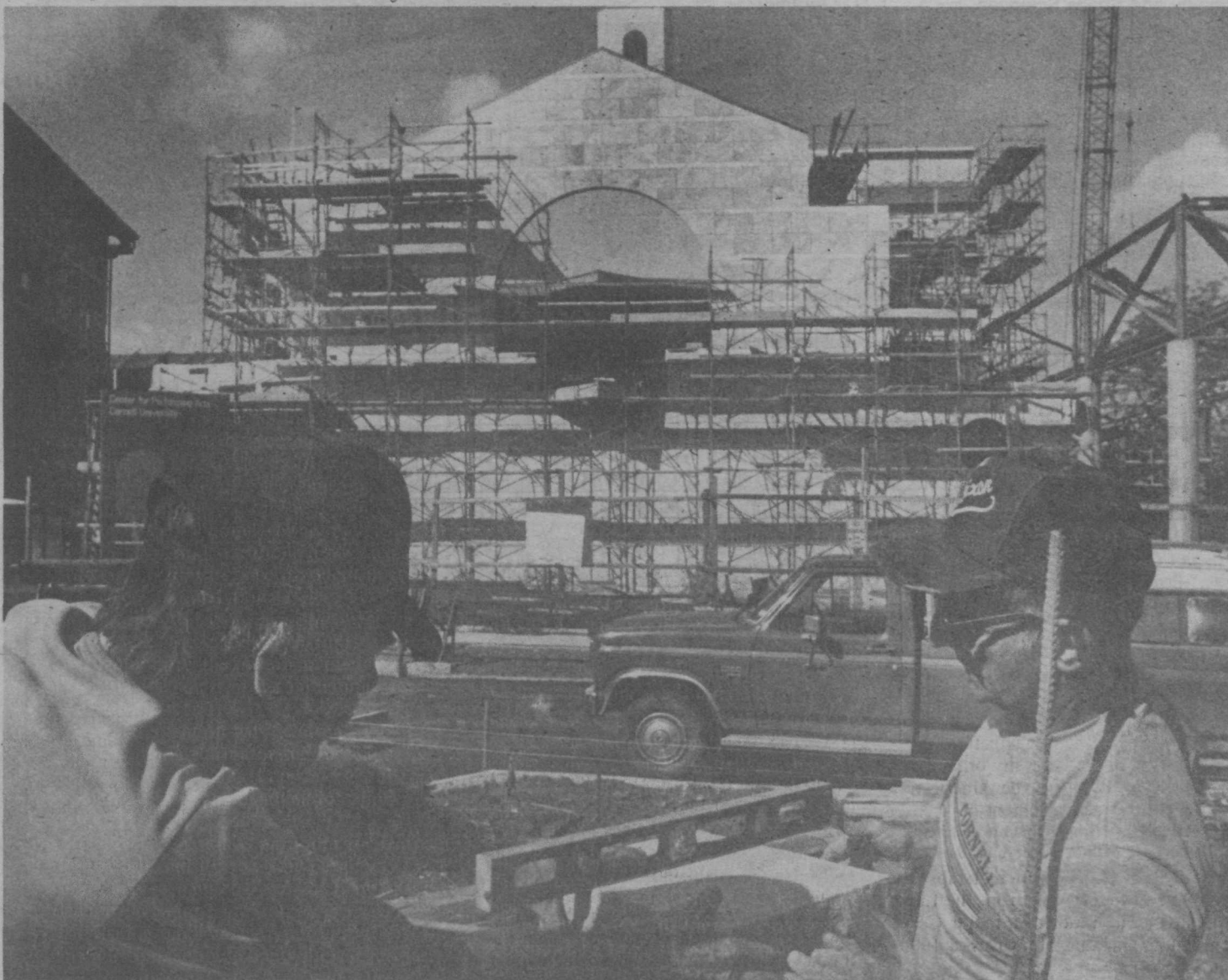
\$39 million, gifts and revenue. Statler Inn has been razed and construction has begun on the site for a 154-room, nine-story Statler Hotel & Conference Center. The project includes a state-of-the-art conference center, the J.W. Marriott Executive Education Center, enlarged facilities for the Statler Club and extensive renovation of the five-story Statler Hall teaching and research facility adjacent to the new building. Work is continuing on the hotel portion of the project, which is approximately 5 percent complete. The school portion, where asbestos removal and interior demolition is under way, is about 5 percent complete. The overall project is within budget, and scheduled completion times are next summer for the school and next fall for the hotel.

College Avenue bridge

\$1.325 million, state and university funds. Stone and road work continues on restoration of the century-old stone arch bridge linking campus and Collegetown. The project, which began in May 1987, is approximately 75 percent complete and within budget; it is scheduled for completion in November.

Residence halls

\$17 million, New York State Dormitory Authority. The project calls for extensive renovation of the six University Hall dormitories on West Campus over three years, beginning in 1985. Improvements include new lighting, paint, carpeting, bathroom facilities, faculty-in-residence apartments, and areas for fitness activities, music and typing. Renovation of Building No. 3 was completed in May 1987. Work on Building No. 4, which began in June 1987, is approximately 60 percent complete; it is expected to be completed next month. Renovation will begin in mid-October on Building No. 5 and should be completed in



Claude Levett

At work on the Performing Arts Center in Collegetown are Bruce Munro and Joe Pettucci, both of McGuire and Bennett construction company. Work has reached the half-way mark, and the new center is expected to be finished in the summer.

Lindorff to make faculty debut Sept. 19

Joyce Lindorff, harpsichord, will give her Cornell faculty debut recital Sept. 19 at 8:15 p.m. in Barnes Auditorium. The concert is free and open to the public.

Lindorff will play Pieces in D by Jean-Philippe Rameau; Four Sonatas by Domenico Scarlatti; English Suite No. 6 in D minor by Johann Sebastian Bach; and Four Fancies (1979) by William Albright.

Before coming to Ithaca, Lindorff, a doctorate from the Juilliard School, lived in New York City, where she was on the faculty of the Lincoln Center Institute for the Arts in Education. She performed as a freelance player with the Waverly Consort, New York Philharmonic, Y Chamber Symphony and other groups.

She is the artistic director of music at Fishs Eddy, a summer chamber music series in Delaware County, N.Y., and she has recorded for the Serenus and Digitech labels.

Since her New York debut at Carnegie Recital Hall in 1980, she has performed rec-



Joyce Lindorff

itals in major concert halls in New York, Boston, San Francisco, Los Angeles, and Washington, D.C.

Engineering receives \$500,000 from alumnus, Dow Chemical Co.

Herbert D. "Ted" Doan and Dow Chemical Co. have each announced \$500,000 gifts to the College of Engineering. Doan, who received his B.S. in chemical engineering from Cornell in 1949, is retiring director and former chief executive officer of Dow.

"The generosity of Ted Doan and of Dow will significantly aid several important research and teaching programs in engineering," said Engineering Dean William Streett. "In particular, the donors have specified that 50 percent of each gift be directed to help fund modernization of the Olin Hall of Chemical Engineering, an essential step in maintaining the quality of chemical engineering research and education at Cornell."

Phase One of the Olin Hall renovation, which will cost \$5 million, will include con-

struction of 23 new research and teaching laboratories, with a total of 13,900 square feet of space. Later phased redevelopment will result in modernization of the entire building, constructed in 1941.

According to Dow Chairman and CEO Paul F. Oreflice, "This contribution by Dow is a way of saying 'thank you' to both Ted Doan and his alma mater. It is in keeping with Ted's long-time support of higher education, particularly in the fields of science and engineering."

"Ted has given a lifetime of unstinting support to innovation in science and engineering. We hope that Dow's donation will help to spark further inquiring young minds."

— Dennis Meredith

Steinbrenner donates winnings to equine research here

Cornell's research on the digestive tract of horses is \$5,000 richer because George Steinbrenner won at Saratoga Raceway.

The principal owner of the New York Yankees was the fastest harness race driver Aug. 14 in the final event of the 1987 George Plimpton Celebrity Challenge Series, a charity fund-raising event that also awards \$5,000 to the winner's favorite cause.

Encountering Steinbrenner at a post-race party, Dr. and Mrs. John E. Lowe convinced the victorious celebrity that equine colic research needed his winnings. Dr. Lowe is an associate professor of surgery and director of the Equine Research Park, the off-campus facility for teaching and scientific research. Audrey M. Lowe is president of the Travers Committee, host for an annual charity gala that benefits research in the College of Veterinary Medicine.

Dr. Lowe said the prize will help support studies by Dr. Pam Livesay-Wilkins of a sometimes-lethal affliction called acute abdomen, in which the lining of the horse's colon is damaged when it becomes twisted about itself.

— Roger Segelken

BTI lecture series continues with talk on plants' defenses

How plants fight back against microbial attack will be examined in the next Boyce Thompson Institute Distinguished Lecture scheduled for Sept. 23 at 2 p.m. in Room 146 of Morrison Hall.

The speaker will be Peter Albersheim, an authority on how plants respond to infection. Albersheim is director of the Complex Carbohydrate Research Center at the University of Georgia. The title of the lecture is "Oligosaccharins are Able to Regulate Growth and Development as Well as Defense."

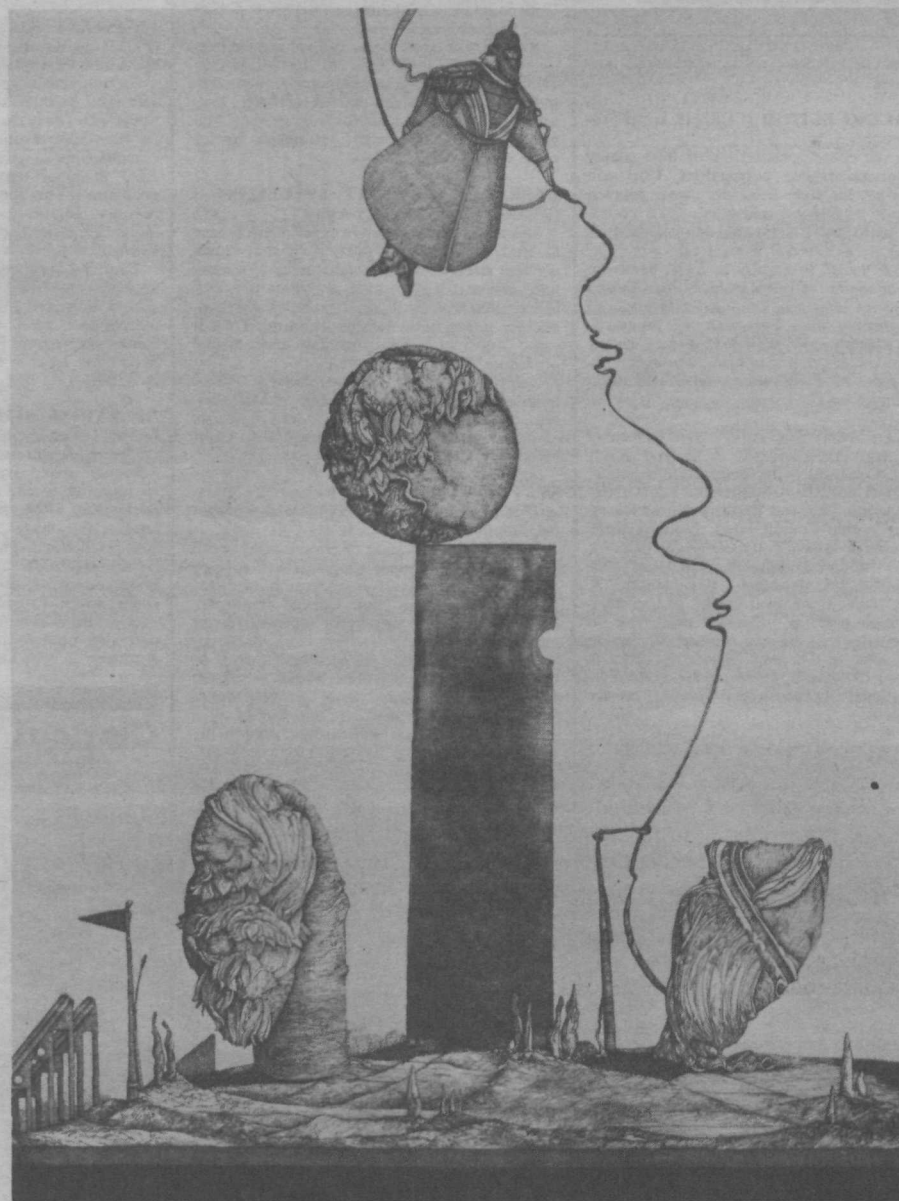
Boyce Thompson President Ralph W.F. Hardy said, "Albersheim has pioneered the unrecognized role of complex carbohydrates in controlling plant responses to pathogens. This knowledge will lead to novel

biotechnology-based approaches to disease control in plants."

Albersheim, who did his undergraduate work in plant pathology at Cornell and who once worked as a summer student at BTI, has focused his research on the structure of plant cell walls and how they are degraded by invading disease organisms, according to Hardy.

"He has discovered that the plant cell fragments produced by the microbial attack are not merely inert debris," Hardy noted. "These carbohydrates, called oligosaccharins, act as specific messages which cause the uninfected plant cells to activate defense mechanisms against the disease."

— Yong H. Kim



Emil Ghinger

'German War Memorial,' an etching and water color by Zevi Blum, included in the Art Department Faculty Exhibition on view at the Johnson Museum of Art through Oct. 18. Also at the museum through Oct. 25 are exhibitions titled '8 New York Artists' and 'Two Icelandic Artists.'

Trustees Continued from page 1

undergraduate teaching facility, is not suitable for today's teaching and research.

A high-bay area extending from the basement through the second floor and across half of the wing no longer is necessary because current lab equipment is more compact. Turning this area into two floors of offices and labs will add 7,100 square feet of space.

The renovation will include installing new laboratory utilities, furnishings, ventilation, heating, air conditioning, electrical power, lighting fire alarm systems, elevator and a fire stair.

Professors-at-Large

A.D. White Professors-at-Large are individuals who have achieved high international distinction in their fields. During their six-year appointments, they visit Cornell periodically to participate in seminars, give public lectures, speak to classes, and make themselves available to faculty and students.

The new professors-at-large are:

- Claude Allegre, professor and chairman of earth sciences at the University of Paris, where he heads the Institut de Physique du Globe. Allegre's work centers on

geochemistry, including the driving mechanism for plate tectonics.

- David Billington, a structural engineer at Princeton University known as an historian and critic of technology. He is a member of the National Academy of Engineering and the Executive Council of the Society for the History of Technology. He received the 1986 American Society of Civil Engineering History and Heritage Award.

- Rudiger Wehner, professor of zoology at the University of Zurich. His main field of research is the behavioral and neurophysiological analysis of visual navigation of bees and ants. Among the many organizations to which he belongs is the American Association for the Advancement of Science. He recently completed a year as president of the Swiss Academy of Sciences.

The Andrew D. White professorships were established under a gift from the Lilly Endowment Inc. in honor of a major Cornell benefactor, Nicholas H. Noyes, a 1906 graduate of Cornell.

New titles

Trustees were asked to approve changing the title of vice provost to vice president "to

identify more clearly the role of these individuals in the administrative structure and to remove the artificial distinction that has been made between vice provosts and vice presidents," Provost Robert Barker said.

The change means that the vice provost for academic programs becomes the vice president for academic programs, the vice provost for planning and budgeting becomes the vice president for planning and budgeting, and the vice provost for computing becomes the vice president for computing and information systems.

Among their other actions the trustees also approved:

- Appointing as the first Luigi Einaudi Professor of European and International Studies Roger Chartier, who is director of the Center for Historical Research at the Ecole des Hautes Etudes in Science Sociales.

The professorship was established earlier this year through an endowment from the Italian government; the balance is from friends of Cornell in the United States and Italy. It marks the 40th anniversary of Einaudi's election as the first president of the Republic of Italy.

Chairholders will be chosen from among European scholars and policy makers of recognized international stature in economic theory and policy, political science, European history, development of European political and social institutions, and European federalism.

- Naming Michael N. Kazarinoff as acting director of the Division of Nutritional Sciences of the College of Agriculture and Life Sciences for a one-year term retroactive to June 23. Kazarinoff will serve while a nationwide search is conducted for a successor to Malden C. Nesheim, who became vice president for planning and budgeting on Aug. 1. Kazarinoff joined the Cornell faculty as an assistant professor in 1978 and became an associate professor in 1985.

- Establishing up to three Samuel B. Eckert Professorships in Engineering to attract teachers of the highest professional standards and of special distinction and promise. The professorships will be funded by a trust established by Eckert, who was a 1908 Cornell graduate in mechanical engineering.

— Barry Gross

Job Opportunities

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 and resumes to Staffing Services, 160 Day Hall, Cornell University, Ithaca, NY 14853.

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

-Requests for referral and/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 CUINFO, Cornell's computerized info service.

Administrative and Professional

Minimum salaries listed are for recruitment purposes only.

MANAGING EDITOR (PC3511) Hotel Administration

Supv. & coord. production of high-quality busn. journal related publications. Copy-edit manuscripts for style substance; write articles; proofread; production scheduling (incl. coord. efforts with staff members, free lancers & vendors).

Req.: BA pref. in English & 2 yrs. hands-on editing or mgmt. of prints publications. Strong command of language. Familiar with editorial style & printing spec's. Exp. with page layout & design. Able to work with WP & page-layout software. Understanding of busn. writing & hospitality industry. Send cover letter & resume to Esther Smith by 10/1.

DEVELOPMENT ASST. (PA3513) University Development

Assist in planning & implementation of annual campaign & provide assistance with major reunion campaigns. Design & implement fund raising programs within Cornell Fund. Enlist & work with alumni & student volunteer leaders. Coord. Cornell Fund special events & mtgs.

Req.: BA/BS or equiv. Exc. comm. & interper. skills. Some prior knowl. of fund raising through prof. or volunteer exp. Able to communicate with diverse alumni & student body. Knowl. of CU desir. Send cover letter & resume to Cynthia Smithbower by 9/25. Employees should also submit an Employee Transfer Application.

RESEARCH SUPPORT SPECIALIST I (PT3503) Clinical Sciences

Support woodchuck hepatitis project for research on liver disease. Create, maintain & analyze computer records. Assist in major woodchuck colony operations, blood collection, surgery, identification, breeding, pup inoculation & experimental treatment.

Req.: BS in bio. with emphasis in wildlife ecology. Computer programming coursework. NYS driver's lic. Mgmt. of large data sets on IBM PC/XT (R base System V). Lab animal exp. incl. ability to restrain, examine & bleed wild animals, incl. woodchuck. Send cover letter & resume to Judi Deane by 10/2.

4-H EFNEP CLUB ASST. (PA3505) NYC Coop. Ext.

Recruit, train & support adult & teen 4-H leaders who will expand EFNEP youth group into comprehensive 4H Clubs in NYC. Work done will be in cooperation with EFNEP Aides working with youth nutrition groups. Variable full-time-35 hrs.

Req.: AAS or equiv. 2 yrs. work exp. involving youth related programs. Able to relate to diverse audiences in urban areas. Strong comm. skills. Able to plan & work independently. Current NYS driver's lic. Ability to speak Spanish desir. Send cover letter & resume to Cynthia Smithbower by 10/2.

ASSISTANT DIRECTOR (PA3502) Cornell United Religious Works

Provide admin. support for weekly staff mtgs., united programs & conferences; Sage Chapel services; represent CURW in Div. of Campus Life mtgs., administer Sage Chapel Adv. Committee, Baccalaureate service, student preaching. Mon.-Fri., 8:30-5:00; Sun., 10-12:30. Until 6/30/88.

Req.: BA/BS. Exp. in religious ed., pluralistic outlook, admin./planning skills. Send cover letter & resume to Cynthia Smithbower by 10/2.

ASST. DIR., CORNELL FUND (PA3512) University Development

Assist Dir., Cornell Fund in development of programs within Cornell Fund with emphasis placed on Reunion Class Campaigns. Assist with overall planning, development & implementation of Cornell Fund's efforts to obtain support from other private sources. Enlist alumni leadership, set goals & facilitate Fund objectives. Conduct phonathon campaigns.

Req.: BA/BS. Exp. working with volunteers & fund-raising exp. desir. Travel req. Able to communicate persuasively orally & in writing. Good org. skills. Send cover letter & resume to Cynthia Smithbower by 9/25. Employees should submit an Employee Transfer Application.

RADIATION SAFETY OFFICER (PT3514) Environmental Health

Responsible for mgmt. of univ. radiation protection program. Supv. staff, manage new & ongoing radiation safety programs. Consult with faculty & staff; evaluate potential hazards of proposed research. Interface with govt. regulatory agencies.

Req.: MS or equiv. in health physics, ABHP cert. pref. Several yrs. prof. level exp. in health physics, exp. in mgmt. of broad based univ. radiation safety program highly desir. Exc. oral & written comm. skills req. Send cover letter & resume to Judi Deane by 10/2.

AUDIT MGR. (PA3506) Audit-Medical College, NYC

Resp. for planning, execution & reporting of financial & operational audits of Medical College & its Faculty Practice Plan.

Req.: BA/BS; MBA & CPA pref. Min. 5 yrs. of auditing exp. or equiv. Knowl. of Healthcare

systems & EDP auditing pref. Send cover letter & resume to Search Committee: Audit Mgr. by 9/25.

COMPUTER AUDIT MGR. (PA3507) Audit

Resp. for reviewing & testing procedures for safe guarding of Univ's. computer related resources, evaluating internal controls of new & existing systems, developing software for ongoing audits of Audit Office & providing technical computer training.

Req.: BA/BS req., MBA or adv. degree in computer sci. pref. Min. 5 yrs. EDP audit exp. or equiv. background in computer application development. Working knowl. of mainframes, mini-computers, & micro-computers req. Send cover letter & resume to Cynthia Smithbower by 10/2.

SR. TECHNICAL WRITER (PC192) Computer Services-repost

Produce intro. to advanced level publications to clearly & correctly explain software systems of some complexity; produce/edit materials publicizing CCS activities & functions.

Req.: BA or equiv. Min. 2-3 yrs. related exp. in tech. writing. Knowl. of IBM/CMS & DEC/VMS mainframe computers, microcomputers (especially Mac), text editors/WP/desktop publishing software & programming languages. Send cover letter, resume & writing sample to Esther Smith.

RESEARCH SUPPORT SPECIALIST I (PT3205) Plant Pathology-repost

Design, execute & analyze experiments related to study of soil-borne plant pathogens. Independent research will be conducted in 1 or more following areas: Microbial responses to roots, isolation & analysis of plant exudates, microbe-microbe interactions, biological control. Train & supv. students & others in lab experimental procedure. Routine lab mgmt.

Req.: MS or equiv. in Plant Path. or Microbio. or related field. 2 yrs. lab exp. in Microbio. req., trng. in biochem. & soil sci. desir. Evidence of independent research skills req. Send cover letter & resume to Judi Deane.

STATUTORY EMPLOYEE BENEFITS MANAGER (PA046) Statutory Finance & Business Operations-repost

Oversee administration of State-funded health insurance & retirement programs for approx. 5600 employees; assist in extension of Univ. benefit programs to Stat. College employees. Ensure that Stat. employees (clients) receive quality service.

Req.: BS or equiv. in personnel mgmt. or related field. MS in personnel admin. or related field or a C.E.B. (cert. employee benefits) is highly desir. 3 yrs. benefit exp. plus 1 yr. of supv. exp. Prior work exp. with a univ. community helpful. Good oral & written skills mandatory. Knowl. of admin. computer applications req. Send cover letter & resume to Cynthia Smithbower by 10/2.

APPLICATIONS PROGRAMMER/ANALYST II (PT2614) 2 positions) Computer Services-repost

Design, develop, modify & document straight forward applications software in support of distributed admin. system.

Req.: BS or equiv. with computer related courses. 2 yrs. microcomputer exp. in busn. environ. Knowl. of at least 2 languages-PL/1, Natural or COBOL pref.; knowl. of applications for interactive & batch administrative systems, data base mgmt. systems, machine architecture, system utility, programs, VM/CMS. Send cover letter & resume to Judi Deane by 10/2.

TECHNICAL CONSULTANT (PT195) Hotel Administration-repost

Provide programming & consulting support for research & instructional computing. Utilize a microcomputer & univ. mainframe (SAS/SPSS).

Req.: BS or equiv. coursework in computing or related fields. Substantial knowl. & exp. of SAS or SPSS. Knowl. of hospitality software desir. Send cover letter & resume to Judi Deane.

RESEARCH SUPPORT SPECIALIST (PT3407) Vet. Micro.-Baker Institute-repost

Supv. operation of Cornell Biotech. Inst.'s Cell Hybridization lab & Cornell Equine Genetics Ctr. Lab of Immunogenetics. Develop new techniques for labs (cell culture, biochem. & recombinant DNA work). Teach, supv. & asst. users of Cell Hybrid lab. Supv. daily oper. of lab, maint. cell lines, animals, supplies, etc. Supv. operation of Immunogenetics lab, lab maint., cytotoxicity, ELISA & mixed lymphocyte culture assays, immunization & absorptions, schedule surgery & horse experiments.

Req.: BA in bio. or MS in monoclonal antibody production or related cell culture work. Lic. in blood banking, lab tech., histocompatibility testing, or animal health tech. pref. 3-5 yrs. exp. in monoclonal antibody production or related cell culture work, general immunogenetic techniques (mouse, human or domestic animal), biochem. or molecular bio. Strong org. skills & ability to interact well with others essential. Knowl. of computers useful. Send cover letter & resume to Judi Deane by 9/29.

COUNSELOR (PA3409) State Programs Office

Assist Dir., State Programs & Asst. Dir. in providing academic, personal & financial counseling to H/EOP students. Assist with recruitment & provide info. about program guidelines, institut. policies & procedures to students, parents, CU community & guidance counselors.

Req.: BA/BS Strong interper. skills. Able to work effectively with diversified minority & non-minority population. Able to communicate effectively with various publics. Send cover letter & resume to Cynthia Smithbower by 9/25.

RESEARCH SUPPORT SPECIALIST (PT3407) Vet. Micro.-Baker Inst.

Perform organic synthesis of new molecules, research & evaluate synthetic routes, supv. 1-2 upper-level graduates & organize daily operation & maint. of synthetic lab.

Req.: BS in chem. or MS in organic chem. pref.; add'l. exp. in synthetic organic lab. Knowl. of chromatography & NMR tech. Send cover letter & resume to Judi Deane by 9/25.

RESEARCH SUPPORT SPECIALIST (PT3407) Vet. Micro.-Baker Inst.

Supv. daily operation of CU Biotech. Inst.'s Cell Hybridization lab & CU Equine Genetics

Ctr. lab of Immunogenetics. Develop new techniques for both labs (i.e. cell culture, biochem. & recombinant DNA work). Teach, supv. & assist those using Cell Hybrid. lab. Maintain cell lines, animals, supplies. Lab maint., cytotoxicity, ELISA & mixed lymphocyte culture assays, immunization & absorptions, sched. surgery & horse exp.

Req.: BA in bio., MS pref. 3-5 yrs. exp. in monoclonal antibody production & general immunogenetic techniques. Send cover letter & resume to Judi Deane by 9/29.

GRANT & CONTRACT OFFICER (PA3408) Sponsored Programs

Assist faculty with preparation of proposals, review proposals for signature & negotiate agreement with sponsors. Assist faculty with post award admin. of sponsored projects.

Req.: BA/BS or 3-4 yrs. of equiv. work exp. Requires good written/oral comm. skills. Send cover letter & resume to Cynthia Smithbower by 9/25.

ASSISTANT TO BUSINESS MANAGER (PC3314) (Minority Trainee)/Division of Campus Life 1 yr. appt.

Provide staff support to Busn. Mgr./Campus Life (\$60 M budget). Analyze finan. & operational info., prepare reports, with division staff (at least 50% of time) using PC & mainframe computer apps. Assist in admin. of personnel/EEO & labor agreement policies, practices, procedures. This appt. provides exp. in a variety of univ. admin. functions sufficient to prep. indiv. to assume possible mgmt. resp. with Cornell.

Req.: BA busn. admin., fin. or acctg. with 2-3 yrs. exp. req. MBA pref. Able to work with a variety of groups; staff, students, admin. on an independent basis nec. Good written/verbal comm. skills essent. Familiar with IBM PC desir. Send cover letter & resume to Bettie Thompson by 9/30.

RESEARCH SUPPORT SPECIALIST I (PT3311) Vet Micro.-Baker Inst.

Operate & maintain research service function. Schedule users, maintain & operate HPLC. Maintain & repair a wide range of analytical equip. (i.e. refrig. centrifuge, CO2 incubators, laminar flow hoods, spectrophotometers, etc.). Competence in diagnosis of equip. failure & perform simple repairs. Maintain operating log on major equip. Assist in developing integrated equip. arrays. Provide user instruction.

Req.: BS in bio. or biochem. 2 yrs. exp. Demonstrated mechanical aptitude. Send cover letter & resume to Judi Deane by 9/18.

Clerical

REGULAR EMPLOYEES Submit an employee transfer application, resume & cover letter. Career counseling interviews are available by appt. **EXTERNAL APPLICANTS** Submit an employment application & resume. Interviews are conducted Wed. from 1-6pm at Staffing Services, East Hill Plaza by appt. Contact Esther Smith (255-6878) or Lauren Worsell (255-7044).

SECRETARY, GR18 (C3501) Theory Center

Act as primary receipt. for Cornell Nat'l. Supercomputer Facility (CNSF); provide sec. support for CNSF, incl. use of WP & computer terminal to generate corresp., reports, etc.

Req.: H.S. dip. or equiv. Sec. school pref. Min. 2 yrs. related off. exp. WP exp. desir. Familiar with computers helpful. Strong interper. & comm. skills. Med. typing.

Minimum Biweekly Salary: \$444.37

SECRETARY, GR18 (C3504) Residence Life

Receptionist support; maintain numerous computerized & routine records; resp. for maintaining cash register & drawer; contact with 19+ staff & 300-2000 students daily.

Req.: H.S. dip. or equiv. Busn. or sec. school desir. Med. typing. Lotus req., word perfect pref., data mgmt. systems helpful. Exc. org., interper. & comm. skills. Able to set priorities & work in a complex, active environ.

Minimum Biweekly Salary: \$444.37

SECRETARY, GR18 (C3503) Residence Life

Provide sec./clerical support for West Campus Area office (9 staff/2000 students). Type corresp., newsletters, reports; statistical typing; dictation; answer phones; back-up support for other area's as needed assisting with student needs.

Req.: H.S. dip. or equiv. Busn. or sec. school pref. Heavy typing. Previous sec. exp. Strong org., interper. & comm. (written/oral) skills. Knowl. of IBM PC essential. Mac helpful. Able to work with numerous interruptions.

Minimum Biweekly Salary: \$444.37

SECRETARY, GR18 (C3509) University Development

Provide sec. support to Dir. & Admin. Aide in overall operation of off. Type & proofread all corresp.; duplicate & distribute materials; maintain files; update & maintain computer mailing labels & staff lists; arrange travel; schedule appts.; perform research via computer.

Req.: H.S. dip. or equiv. Sec. school desir. Some off. exp. Heavy typing. Knowl. of Xerox Memory Writer. Good phone techniques. Strong interper. & org. skills. Handle confidential info. Attention to detail. Able to set priorities & work in a complex, active environ.

Minimum Biweekly Salary: \$444.37

SECRETARY, GR19 (C3507) Chemical Engineering

Provide academic & research related sec. & admin. support. Type highly tech. (equations) material; oversee completion & submission of proposals; schedule appts.; coord. mtgs.; arrange travel; maintain files; answer phones; act as backup for busn. off. operations.

Req.: AAS or equiv. Min. 2 yrs. related exp. Exc. org., interper. & comm. (written/oral) skills req. WP exp. desir.

Minimum Biweekly Salary: \$470.80

SECRETARY, GR19 (C3506) Graduate Fellowship Office

Provide sec. support to Dir. & Asst. Dir.

Coord. flow of materials through office; assist in org. annual Fellowship Competition; WP of award letters & general off. comm.; some CRT entering; special projects as assigned.

Req.: AAS or equiv. Min. 3-5 yrs. off. exp. Exc. typing skills. Strong org., interper. & comm. skills. Thoroughness & attention to details essential. Knowl. of WordPerfect essential, knowl. of LOTUS pref. Med. typing. Able to set priorities & work in a complex, active environ.

Minimum Biweekly Salary: \$470.80

INFORMATION SPEC., GR19 (C2802) Career Center-repost

Assist students using career lib. for job hunting & career planning; assist Lib. Coord. in classifying, updating & maintaining lib. resources, long with editing/preparing revised annotated bibliography for publication; provide support in Career Ctr. News & publications/handouts areas.

Req.: AAS or equiv. Min. 1-2 yrs. exp. pref. Must have exc. org., interper. & comm. (written/oral) skills. Enthusiasm for working with students. Able to use IBM & Mac computers.

Minimum Biweekly Salary: \$470.80

ACCTS. ASST., GR21 (C3510) Controller's Office

Act as asst. to Sr. Accountant resp. for financial reporting. Major areas of acctg. responsibility incl. Endowment & Similar Funds, Gift Accts., Loan Funds, & General Purpose budget accts. Establish, monitor & reconcil. accts.; prepare monthly quarterly & annual finan. reports & analyses.

Req.: AAS in acctg. or equiv. Min. 2-3 yrs. exp. pref. Knowl. of Lotus 123 or Symphony. Able to work independ. desir. Accuracy req.

Minimum Biweekly Salary: \$527.69

ACCTS. COORD., GR22 (C3505) Applied & Engineering Physics

Resp. for monitoring research & academic dept. accts. with high level of funds; provide status reports, reconciliations & projections for grants & dept. expendable funds; maintain financial records & oversee ongoing acctg. activities; process student & temp. appts.

Req.: AAS in acctg. or equiv. Min. 5 yrs. exp. in positions involving fiscal responsibilities. Exp. with spread sheet programs on PC. Able to work with diverse group of people. Lt. typing. CU employees should submit transfer application to Esther Smith by 9/24.

Minimum Biweekly Salary: \$556.14

General Service

REGULAR EMPLOYEES Submit an employee transfer application to Staffing Services, East Hill Plaza. **EXTERNAL APPLICANTS:** Employment applications are available at Staffing Services, East Hill Plaza 9-noon, Mon.-Thurs.

DISH MACHINE OPERATOR, SO16 (G3505) Dining-Endowed

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

Req.: H.S. dip. or equiv. Able to learn proper use of dishwashing equip. & cleaning agents. Able to lift 35 lbs.

Minimum hourly rate: \$5.14

CUSTODIAN, SO16 (G3503, G3504) Buildings Care-Endowed

Provide general custodial care of bldgs. & grounds in immediate vicinity of assigned area. Mon.-Thurs., 6 a.m. 2:30 p.m.; Fri. 6 a.m. 1:30 p.m.

Req.: H.S. dip. or equiv. Able to operate a variety of heavy power equip., lift 50 lbs. & climb an 8 ft. ladder. Basic reading & writing skills.

Minimum hourly rate: \$5.14

MATERIAL HANDLER, SO18 (G3506) Dining-Endowed

Receive, inspect, store & issue food products, equip. & supplies. Clean & maintain assigned areas. Shift subject to change.

Req.: H.S. dip. or equiv. Basic reading & computation skills req. Knowl. of storeroom inventory techniques & purchasing/receiving food. Able to lift 75 lbs. on continuous basis. NYS driver's lic. req.

Minimum hourly rate: \$5.71

MAINTENANCE MECHANICIAN, GR20 (G3502) Bldgs. & Properties-Geneva

Assist with electrical work & other trades to maintain, add to or improve bldgs., properties & related facilities. 1 yr. appt.

Req.: H.S. dip. or equiv. NYS driver's lic. req. 2-4 yrs. exp. in basic maint. work, electrical work & bldg. trades nec. Knowl. of electrical circuits & general wiring & ability to use vom's & amps probes. Proven general mechanical ability in bldg. trades.

Minimum Biweekly Salary: \$495.35

COPY PREPARATION SPECIALIST, GR20 (G2529) Media Services-repost

Operate Compugraphic 8400 Typesetting system serving NYS Colleges of Ag. & Life Sci., Human Ecol. & NYS Coop. Ext.

Req.: H.S. dip. or equiv. Lt. typing. Formal training or exp. in Graphic Arts, Telecommunications & computers desir. Proven proficiencies in complex typesetting, formatting & coding. Able to adapt to new technology in typesetting. Strong interper. skills.

Minimum Biweekly Salary: \$496.80

DRAFTER, GR21 (G3501) Nuclear Studies

Design & prepare working drawings, layouts, specifications of equip., scientific illustrations & graphics. Work from sketches, notes or verbal instructions.

Req.: AAS in electronic, mechanical or engineering technology or equiv. 1-2 yrs. design drafting & tech. illustrating exp. Some exp. in art & publications desir.

Minimum Biweekly Salary: \$527.69

September 17
Number 35
Office of Human Resources
Cornell University
160 Day Hall
Ithaca, New York 14853-2801

Technical

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. Interviews are conducted the first Thursday of each month from 1:30-4:30 p.m. at Staffing Services, East Hill Plaza. The following backgrounds are highly desired: biochem., chem., microbio., elect., physics, lic. animal health tech. No appt. is necessary, however a brief wait may be required.

TECHNICIAN, GR19 (T3504) Physiology (Diagnostic Lab)

Perform radioimmunoassays of hormones in blood samples from animals & tissue culture media. Perform assays incl. preparing samples, handle low-level radioactive materials, protocoling assays & calculating results, prepare buffers, maintain paper & computer files, wash dishes & clean lab.

Req.: BS/BA in bio. or chem. sci. Basic skills & knowl. of chemical lab procedures, mathematics & oral & written comm. Trng. in immunology, endocrinology & biochem. useful.

Minimum Biweekly Salary: \$469.53

TECHNICIAN, GR20 (T3405) Genetics & Development

Assist in running a bacterial genetics lab. Run experiments in molecular biology, transformations, transductions, cloning, etc. & direct new students in same, maintain records & supv. lab.

Req.: BS with courses in genetics, microbio. & biochem. Exp. in molecular biology techniques desir. Apply 10/2.

Minimum Biweekly Salary: \$496.80

ELECTRONICS TECHNICIAN, GR20 (T3502) Theory Center

Resp. for installing & maintaining computer related equip. & equip. as nec. Perform computer backups.

Req.: AAS or equiv. in electronics. Exp. wiring various networks helpful. Computer exp. helpful. Able to work independently essential. Good comm. skills. Apply by 9/25.

Minimum Biweekly Salary: \$496.80

ENVIRONMENTAL SAFETY TECH., GR23 (T3303, T3304) Environmental Health

Survey campus bldgs. to evaluate condition of specific bldg. materials. Evaluate materials for potential health hazards, perform limited maintenance & keep accurate records. 1 yr. appt.

Req.: AAS req. sci. & engr./construction coursework helpful. Valid NYS driver's lic. req.; lab & construction exp. desir. Exc. written & oral comm. skills req. Apply by 9/25.

Minimum Biweekly Salary: \$589.44

NEWS FROM... Human Resources

Update on the Immigration Reform and Control Act of 1986: As a result of the recently enacted law that requires employers to request and examine documentation of the identity and employment eligibility of all new hires and re-hires, Staffing Services has held hiring procedure workshops to advise 270 departmental hiring officials of their responsibility and the necessary procedures for the immediate compliance with the new legislation.

Also, a letter was mailed this week to inform those employees hired between November 1986 and June 1987 of their responsibility to bring two forms of identification to Staffing Services, 160 Day Hall, to confirm their employment eligibility as required by the law. Employees may receive release time, if necessary, to complete this process. Call Staffing Services, 255-5226 for information.

As one element of the Human Relations Agenda, participation in Results-Orientation Supervisor (R-OS), a workshop designed for the new Cornell supervisor, is now required. The nine-session program presents information about the legal responsibilities of a supervisor, guidance with hiring decisions, workplace problems and disciplinary communication skills and human relations training.

You and Cornell, a policy guide for non-academic, nonunion employees will be delivered through the campus mail in October. The guide will serve as a personal reference covering the topics of employment, administering salaries and wages, providing benefits, time away from work, encouraging employee growth, information and counseling, and other special employment circumstances and general information.

Cornell's 13th annual employee day will be held Sept. 26 and volunteers are needed to help serve at the chicken barbecue to be held at Barton Hall following the Cornell-Colgate football game. Call Donna Updike, 255-4429 for information.

Barton Blotter: Two construction sites vandalized and robbed

Two construction sites were hit with vandalism and thefts on Labor Day weekend involving losses of \$3,163, according to the morning reports of the Department of Public Safety for Sept. 1-9.

Materials costing a total of \$1,000 were thrown into the gorge from the site of work being done on the College Avenue Bridge, and tools valued at \$2,163 were taken from the Statler Hall construction area.

Other thefts included a litter of white rat pups valued at \$85 taken from Morrison Hall, a table and two plants costing \$230 stolen from Bradfield Hall, a \$113 watch taken from Dickson Hall and three cash thefts from wallets totaling \$523.

In all, 15 thefts amounting to losses of \$4,692 in cash and valuables were reported during the nine-day period.

One person was referred to the judicial administrator on charges of damaging a wall in North Campus No. 7. There was one arrest for driving while intoxicated.

Graduate Bulletin

Course enrollment: Sept. 18 is the last day for filing course enrollment forms, nominations of committee (check with field regarding number of faculty signatures), and addition to/change of special committee forms. Bring completed course enrollment form to Sage Graduate Center. A late fee is charged for enrollment after Sept. 18.

Dissertation deadline: Ph.D. candidates who have defended their dissertations and submitted two acceptable copies to the Graduate School by Sept. 18 will not be charged the \$200 Active-File fee for fall 1987.

Course changes: Oct. 23 is the last day for changing grade options, credit hours, and dropping courses.

Fellowships and financial aid: Fellowship applications are available in the Fellowship Office, 116 Sage Graduate Center. The telephone number is 255-5819.

Cornell saves on natural gas costs by direct purchases from wellhead

This winter, Cornell will cut out the middleman in its natural gas purchases by buying gas directly from the wellhead in Texas, according to Henry Doney, director of engineering and facilities.

Under a contract signed last spring with the brokerage company Yankee Resources, Cornell will save about \$200,000 annually on its natural gas bills by purchasing gas from the wellhead and paying pipeline transportation costs to the pipeline company and to the New York State Electric and Gas.

A recent ruling by the Federal Energy Commission allowed large users such as Cornell to purchase gas directly from the wellhead of the gas producer.

According to Doney, Cornell typically uses about two million therms of gas per year at its central heating plant, enough to heat about 1600 average-sized homes. This energy, however, represents only about 12 percent of the approximately 16 million therms per year used by Cornell, the rest being provided by coal and a small amount of oil.

Xerox Corp. joins Theory Center's Corporate Research Institute

Xerox Corporation has joined the Corporate Research Institute of the Theory Center to work with Cornell faculty in research aimed at improved semiconductor devices.

Xerox staff scientist Christian Mailhot of the Xerox Science Laboratory will work with Cornell theoreticians to perform calculations on the electronic structure of semiconductor surfaces, metal-semiconductor contacts, and super lattices, which are novel, multi-layer semiconductors interleaved on an atomic scale.

Mailhot's studies will concentrate on gal-

lium arsenide semiconductors, which have shown promise as the basis for high-speed computers and optoelectronic devices.

"Understanding how the detailed properties and structure of molecules arise from their electronic structure is a major goal in supercomputer use," said Theory Center Director Kenneth G. Wilson.

Other corporations that have developed research partnerships with the Theory Center include Corning Glass Works, International Business Machines Corporation and Floating Point Systems.

CALENDAR Continued from page 7

nell's New Works Reading Series. Wally Shawn is best known for his film roles in 'My Dinner With Andre' and as Annie Hall's dumpy exboyfriend in Woody Allen's film classic. He has been and remains an accomplished writer before and after these popular events. Free and open to the public. Call 255-5165 for information.

MISC

Alternatives Library

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

Cornell Plantations

Cornell Plantations will hold its second Mushroom Festival Sept. 19 from 1-5 p.m.

There will be mushroom talks, spore print art demonstrations, and a microscope workshop on mushrooms. Participants should collect and bring in mushroom for identification. Donation \$2 -Cornell Plantations Members \$1. Call Cornell Plantations for more information. The telephone number is: 255-3020.

CUSLAR

Committee on U.S./Latin American Relations meets at 5 p.m. on Mondays in the Commons Coffee House. For more information call 255-7293.

Fuertes Observatory

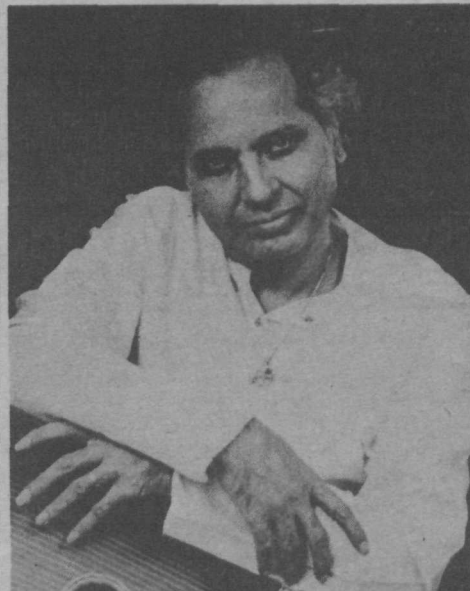
Fuertes Observatory, located on the hill behind Helen Newman Hall, will be open to the public every clear Friday night from 8 p.m. until midnight. Call the observatory at 255-3557 after 8 p.m. on clear Fridays for more information.

Intramural Golf (men, women)

Deadline for entries is Sept. 17 at 4 p.m. in the intramural office, Helen Newman Hall. Fee is \$8 per person, due with roster. Teams will consist of two players. Play will be 1-9 hole, to be played on Sept. 27 starting at 11 a.m.

Intramural Broomstick Polo (men, women, co-ed)

Deadline for entries is Sept. 22 at 4 p.m. in the intramural office, Helen Newman Hall. Fee is \$20 per team.



Pandit Jasraj, right, accompanied by Ustad Zakir Hussain on the drums, left, will give a classical Hindustani vocal recital Sept. 21 at 7 p.m. in Barnes Hall.



Shotokan Karate Club

Shotokan Karate Club welcomes new members, beginners and advanced. The club meets Monday through Friday in front of Barton Hall, 5:30 to 6:45 p.m. For information call Scott, 272-2512, evenings.

Student Assembly Elections

Petitions are available for the following constituencies not represented on the 1987-88 Student Assembly: Graduate School, JGSM, Vet College, Gay/Lesbian, Freshman At-Large. Completed petitions are due on Sept. 21, 4:30 p.m. For more information, contact the Office of the Assemblies, 165 Day Hall, 255-3715.

Job Opportunities

Writing ability. Exc. interper. & org. skills.
Minimum full-time equivalent: \$470.80

DRAFTER, GR20 (G3401) CLEARS

Resp. for cartographic & printing functions in area of remote sensing/resource inventory analysis activities. Maintain air photo lib. 20 hrs./wk. until 8/23/88; added hrs. possible after 6 months; continuation contingent upon funding. Req.: BS in natural resources, landscape arch., geography, related fields, or equiv. exp. 2-3 yrs. tech. work exp. in graphic &/or cartography. Knowl. of standard cartographic convention. Familiar with printing machines helpful. Exc. verbal/written comm. skills. Apply at East Hill Plaza Staffing Office, Mon.-Thur., 9 a.m.-noon. Minimum full-time equivalent: \$495.35

Temporary

Experienced & skilled individuals specifically interested in temporary clerical/secretarial work can contact Lauren Worsell (255-7044).

DISH MACHINE OPERATORS Dining

All shifts avail. Should be able to lift 30 lbs. & be flexible. Contact the East Hill Plaza Office between 9:00 a.m. & noon for further info.

DATA COLLECTOR (C3403) Nutritl. Science
Evaluate nutri. & health effects of home-delivered meals program on elderly. Data collected in NYC until mid-Oct. Would be in NYC 3-4 days/wk. Through Oct. 87.

Req.: H.S. dip. or equiv. Exp. in community nutrition programs pref. Out of town travel expenses will be covered + hourly wage. Call Laurie Worsell at 255-7044.

ANIMAL TECHNICIAN, GR18 (G3310) Lab Animal Services

Provide weekend care of lab animals (care, feed, water, exercise); general cleaning & maintenance of cages & pens. Maintain I.D., breeding & inventory records.

Req: H.S. dip. or equiv. Previous animal handling exp. in an institutional environ. desir. NYS driver's lic. & able to lift 100 lbs. Pre-employment physical req. Apply at East Hill Plaza Staffing Office, Mon.-Thur., 9 a.m.-noon.

Academic

ASST. OR ASSOC. PROFESSOR (A3501)

Rural Sociology
Send vita, transcript & 3 names & addresses of references to Eugene C. Erickson, Chair, Dept.

of Rural Sociology, Cornell University, Ithaca, NY 14853 by 1/1/88.

ASST. PROFESSOR (A3502) Rural Sociology
Send vita, transcript & names & addresses of references to Eugene C. Erickson, Chair, Dept. of Rural Sociology, Cornell University, Ithaca, NY 14853 by 1/1/88.

REFERENCE LIBRARIAN (A3503) Uris Library

Send cover letter, resume & list of 3 references to Michele Draiss, Acting Personnel Director, Cornell University Libraries, 201 Olin Library, Ithaca, NY 14853-5301 by 10/16.

SPORTS

Upcoming sports

Friday, 9/18

Men's Cross Country - Syracuse, at Army, 4 p.m.
 Women's Cross Country - Syracuse, at Army, 4:45 p.m.
 Men's Varsity Soccer, at Pennsylvania, 7:30 p.m.

Friday-Saturday, 9/18 - 9/19

Women's Volleyball at Bucknell Invitational

Friday-Sunday, 9/18 - 9/20

Men's Golf at Yale Invitational

Saturday, 9/19

Women's Varsity Field Hockey, at Pennsylvania, 10 a.m.
 Men's Varsity Football, at Pennsylvania, 1 p.m.

Sunday, 9/20

Women's Varsity Soccer, at Rutgers, 1 p.m.

Monday, 9/21

Women's Jr. Varsity Soccer, Harwick, 4:30 p.m.

Tuesday, 9/22

Women's Tennis, at Ithaca College, 4 p.m.
 Women's Volleyball, at Ithaca College, 7 p.m.
 Men's Varsity Soccer, Brooklyn, 7:30 p.m.

Wednesday, 9/23

Women's Jr. Varsity Field Hockey, at William Smith
 Women's Varsity Field Hockey, at William Smith, 3:30 p.m.
 Women's Varsity Soccer, Adelphi, 4:30 p.m.



The squad reviews a play before the Red-White (Cornell vs. Cornell) scrimmage last weekend. The first game of the season will be played at the University of Pennsylvania on Saturday. The first home game is Sept. 26 against Colgate.

Claude Levett

Union archive *Continued from page 1*

He said the largest single part of the collection contains 450,000 items from the records of David Dubinsky, union president from 1932 to 1966.

The archives include manuscripts, printed documents, photographs and oral histories conducted with senior union officials.

Strassberg, who is director of the Labor-Management Documentation Center at Cornell, said that the center "has now become the foremost repository for the historical records of unions in the clothing industry."

The center also houses records of the Amalgamated Clothing Workers Union, its successor Amalgamated Clothing and Textile Workers Union and the Fur and Leather Workers Union. All told, the center contains 781 collections of material from unions, other organizations, individual scholars and labor arbitrators.

The garment workers union established its archives in 1973 under the direction of Vice President Henoah Mendelsund and archivist Robert E. Lazar. Strassberg served as their consultant.

— Albert E. Kaff



Photographs from the archives of the International Ladies Garment Workers Union.

Construction *Continued from page 8*

May 1988. All facets of the project should be completed in winter 1988.

Equitation center

\$1.85 million, gifts. A new 250-by-90-foot riding arena off Pine Tree Road, just north of the swine barns, replaces Oxley Arena. The project, which began over the summer, is on schedule and within budget, and is expected to be completed this winter.

Barton Hall

\$1 million, gifts. A part of the athletics master plan, a new floor and a state-of-the-art flat track are being installed for basketball, volleyball and badminton. The project, now about 90 percent complete, should be finished late this month. Other aspects of

the project should be completed in late October.

Rockefeller Lecture Room A

\$1.4 million, gifts. The project, which calls for extensive renovation of the lecture room, was started in June 1987. It is on schedule and within budget; the completion date is January 1988.

Food processing and development lab

\$6 million, New York State University Construction Fund. The food processing and development laboratory for teaching, research and extension will house researchers who provide technical aid to New York State's dairy and food industries

and who carry out research and development leading to new and improved foods from agricultural products produced in the state. The brick facade is completed, and interior work is almost finished. The project, now at the 62 percent mark, is scheduled for completion in fall 1988.

Academic I

\$15.1 million, New York State University Construction Fund and the Dormitory Authority. This six-story complex will provide space for three academic programs and for administrative units of the College of Agriculture and Life Sciences. Also planned are a 600-seat auditorium and a 400-seat dining facility. One portion of the building will house the administrative units of the

College of Agriculture and Life Sciences and Cornell Cooperative Extension. A second building will join it at the fourth floor and house the Departments of Education and Communication and the program in landscape architecture. Foundations are complete for both portions of the building; steel erection began last month in the north section. Approximately 17 percent of the project is now complete, and construction is on schedule; completion date is winter 1989.

Martha van Rensselaer Hall

\$2.8 million, New York State University Construction Fund. The renovation project is scheduled to start this fall and to be completed in fall 1989.