

Cornell Chronicle

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Networking

This issue contains a pullout section of Networking, publication by employees and for employees.



The view from Peru's Guitarrero Cave, where Cornell archaeologists found the oldest textiles in South America. See story and other photos on page 3.

Trustees To Meet Here Today

A resolution to authorize a bond issue of \$100 million through the New York State Dormitory Authority to finance construction projects will be considered by the Executive Committee of the Cornell University Board of Trustees when it meets here today.

The Executive Committee will meet in open session at 2 p.m. in the auditorium of Boyce Thompson Institute on campus. The Buildings and Properties Committee of the Board of Trustees will meet in open session at 9 a.m. in the Day Hall conference room.

The bond issue would be used to fund several construction projects already under way, plus others currently in the planning stages. It also would fund renovation projects, some equipment purchases, and provide short-term "bridge" financing for other capital projects.

Among the new construction projects are the Biotechnology Institute, townhouses for student housing, the Academic I dining facility, Lasdon Building at Cornell University Medical College, Statler Inn, and the Caldwell/Comstock project.

Trustees also will hear a recommendation from President Frank Rhodes that adoption of proposed amendments to the Regulations for the Maintenance of Public Order be deferred until the October meeting of the Board of Trustees, in order to permit further discussion by the campus community.

The Executive Committee will be asked to adopt "Rules and Regulations for the Control of Traffic and Parking on the Grounds of Cornell University," as revised in June 1985.

Continued on Page 2

New Program Here Will Focus on African Problems

The famine and starvation in Ethiopia are the most visible symptoms of more serious, long-range problems on the African continent, according to a group of Cornell professors and administrators.

"Forests are being destroyed, cattle are overgrazing, food production per capita is declining," said Milton J. Esman, professor of government and former director of Cornell's Center for International Studies.

"Many African governments are not able to deal with these problems because of political divisions, limited technical and management skills, and inadequate resources," he added. "If they do not receive help, malnutrition, starvation, and disease will become commonplace throughout the continent."

To provide assistance, Cornell is establishing a new program that will focus on the long-term problems and challenges facing the world's second largest continent.

The effort, launched at the suggestion of President Frank Rhodes, is being guided by representatives of Cornell's Center for International Studies, Africana Studies and Research Center, International Agriculture Program and Division of Nutritional Sciences. Additional support will be provided by the Center for Analysis of World Food Issues at Cornell. Provost Robert Barker is supervising the initiative.

The new program begins this month with bi-weekly colloquia involving all interested Cornell faculty members and visiting scholars who will discuss food, hunger, nutrition, population growth and migration, the role of women, and other issues critical to Africa's development.

The meetings are aimed at building a faculty constituency that is knowledgeable about the problems of African development and committed to participating in the research and teaching activities of the new program as it grows, Esman explained.

The first colloquium in the new program will be held Tuesday, Sept. 10 at noon in Room 300 of the ILR Conference Center. Speaking will be David Lewis, an associate professor of city and regional planning at Cornell who has just returned from a 30-month stay in Kenya, where he was a senior adviser for rural development in that nation's Ministry of Finance and Planning. (See related story.)

Later this year, program organizers will begin seeking funding to support visiting fellowships at Cornell for leading African experts on development problems. Funding will also be sought to support several faculty positions in disciplines critical to Africa's future, fellowships for Cornell faculty and

graduate students, expanded library acquisitions, and cooperative programs with African universities and research centers.

"Eventually, we want to find one or more foreign aid projects in Africa through which we can make tangible contributions to a particular set of development problems, working closely with African scholars, technicians, and organizations" Esman explained.

"Our goal, through inter-disciplinary research, teaching, and service, is to enhance cooperation with African institutions and to provide help to the nations of Africa," Esman said. "Such work is a logical extension of Cornell's land-grant mission."

Cornell is respected internationally for its leading research in agriculture, nutrition, population analysis, and institutional development.

In a previous, two-decade effort that began in 1952, the New York State College of Agriculture and Life Sciences at Cornell worked closely with the University of the Philippines' College of Agriculture at Los Banos to improve Philippine education and research in a half-dozen areas, including animal and plant sciences. As a result of the work, Cornell has been able to contribute significantly to improving food production

and nutrition in the Philippines.

Today, Africa is home to 530 million people, more than double the continent's population two decades ago. If present trends continue, the population of Africa will reach 1 billion people within 20 years, said Esman, who is chairman of the new program's steering committee.

At the same time, grain production per capita for the continent as a whole has decreased every year since 1967. More than 25 percent of the population is fed entirely from imported grain.

"Obviously Cornell itself is not going to be able to turn around any of these trends, but we may have something significant to contribute," Esman said. A five-member faculty steering committee is organizing the African development initiative. A separate 13-member program committee of faculty and administrators is offering advice.

The members of the steering committee are: Esman; Edwin B. Oyer, director of the International Agriculture Program; Michael C. Latham, professor of international nutrition; Locksley Edmondson, professor in the Africana Studies and Research Center; and Davydd Greenwood, director of the Center for International Studies at Cornell.

'Experts' Not Needed but 'Aware' Workers Are

Africa does not need foreign "experts" with preconceived answers. Instead, it needs help from people who are intimately aware of the continent's problems and who are willing to roll up their sleeves and get to work on the problems as they exist.

So said David B. Lewis, associate professor of city and regional planning at Cornell, who has just returned from a 30-month stay in Kenya, where he was a senior adviser in the Ministry of Finance and Planning.

"People often underestimate the sophistication and capabilities in several African countries," Lewis said. "Africans know an awful lot about the problems facing their continent. Our first step must be to understand what is already going on. Only then can we determine what help we can offer to improve

African training, research, and development."

Lewis, an expert on development in Third World countries, has worked in Kenya, Ghana, Tanzania, Saudi Arabia, Jordan, Egypt, Bangladesh, the Philippines, and Trinidad. He will share his views on assistance to Africa with Cornell faculty members Sept. 10 during the first noon-time colloquium in Cornell's new program on African development.

Many of Lewis' responsibilities in Kenya centered on helping the government decentralize rural development planning, so that many choices related to social services, agriculture, and other issues are made within each of 40 local districts.

"Kenya's development is outgrowing the administrative capability of a central government," Lewis explained. "Decentralization will help the country better meet the needs of its people."

In 1984, Kenya experienced its worst drought in 100 years. Massive famine was avoided through the combined efforts of government agencies, longshoremen, and truck drivers working together to ensure that food was distributed to all regions of the country. Those too poor to buy food were provided with public works jobs, Lewis said.

"Kenya did an extraordinary job without a lot of outside technical advice," he added. "The nations of Africa don't want someone from elsewhere coming in and telling them what to do when they can do it themselves."

"The Cornell program must build a wide base of knowledge and gain credibility in the eyes of African leaders. Then, an institution such as this could provide tremendous help," Lewis concluded.

Yes, Chronicle Is Taller

If you think Chronicle is a different size this week, you are correct.

With the change in volume number from 16 to 17, starting this newspaper's 17th year, we return to the format we had several years ago, moving from 28-inch to 34-inch newsprint, which means each page is three inches longer than it was previously.

The change is made concurrent with the change in volume number so that those organizations, particularly libraries, that bind the Chronicle can have all the same size papers in each volume.

Faculty Meeting Canceled

The FCR meeting normally scheduled for the second Wednesday in the month, Sept. 11, has been canceled, according to Dean of the Faculty Joseph B. Bugliari.

A combined meeting of the FCR and University Faculty will be held on Wednesday, Sept. 18, at 4:30 p.m. in 110 Ives Hall. Faculty members will be receiving notice of this meeting.

The main agenda item for the Faculty meeting will be a discussion of the proposed revisions of the Regulations for the Maintenance of Public Order.

Frank Clifford, Alumni Chief, Retires Post

Frank R. Clifford, director of alumni affairs at Cornell University since 1967, retired Aug. 30.

"Cornell is grateful for Frank's long and devoted service to the university. His tireless commitment and innovative approach have proven to be important factors in sustaining a strong sense of the Cornell spirit during a period when the alumni was growing in record numbers each year," said Richard M. Ramin, vice president for public affairs.

"Among Frank's many talents has been the ability to relate to an alumni with the cultural and intellectual diversity that is so uniquely a part of Cornell. This was never more evident than during alumni reunion, which he directed for so many years."

A nationwide search for a new director is under way. Until a new director is named, Scharlie B. Handlan will be acting director of alumni affairs, Ramin said. Handlan has been director of alumni club affairs since 1981.

A 1950 graduate of Cornell, Clifford gave a total of 25 years of service to his alma mater after his graduation. In addition to his 18 years as alumni affairs director, he spent seven years (1956-63) in three consecutive administrative positions: assistant director responsible for alumni annual giving, director of Cornell Associates, and associate director of development.

Clifford, who was born in Brooklyn, was a Naval Aviation Cadet at Cornell in 1943 and was a Navy pilot during World War II, before enrolling at Cornell. After graduation, he spent five years as assistant dean of students at the State University of New York College at Brockport. From 1963 to 1967, Clifford was vice president for development at Western Reserve University in Cleveland.

Clifford said he has no specific plans for retirement at this time, but will continue to live in Ithaca. He and his wife Jean have a home at 112 Salem Drive.



Frank Clifford

PEOPLE

Ehrenberg Is First in Ives Professorship

Labor economist Ronald G. Ehrenberg has been named the first Irving M. Ives Professor of Industrial and Labor Relations at Cornell University. The professorship carries with it an annual allocation from the Dean of the ILR school to support the chairholder's professional activities.

Established by the university's Board of Trustees, the professorship honors the late U.S. Senator (1947-59) from New York. As Republican majority leader of the New York State Assembly in 1944, Ives was the prime mover in the establishment of the New York State School of Industrial and Labor Relations at Cornell.

A progressive, he was also cosponsor of the Ives-Quinn Law, the first legislation enacted by any state prohibiting discrimination in employment because of race, creed, color, or national origin. He was elected to a second term in the U.S. Senate in 1952 by the largest plurality ever received by a candidate for a state-wide office in New York.

Ehrenberg, a member since 1975 of the faculties of both the ILR school and the College of Arts and Sciences, is recognized internationally as a leading scholar in his field. He is known particularly for his work in the areas of public sector labor markets, wage determination in regulated industries and the evaluation of labor market programs and

legislation. Recently, he has worked on resource allocation issues in education.

His publications include more than 45 articles and six books. Two of his books — "The Regulatory Process and Labor Earnings" (1979) and "Longer Hours or More Jobs?" (1982) — were selected by the Princeton University Industrial Labor Relations Section as outstanding books for the decade and year published, respectively. A third book, "Modern Labor Economics" (2d ed., 1985), coauthored with a colleague, Robert Smith, is the leading text in its field.

Ehrenberg has been director of research at the ILR school since 1981 and served as chairman of the school's Department of Labor Economics (1977 to 1981).

Currently, he is a research associate of the National Bureau of Economic Research and has served as editor, or a member of the editorial boards, of five professional journals, including the American Economic Review.

Ehrenberg holds a bachelor's degree (1966) from the State University of New York at Binghamton and master's and doctoral degrees (both awarded in 1970) from Northwestern University.

Before coming to Cornell, he taught at the University of Massachusetts and Loyola University in Chicago; for a year he was a staff economist for the Council of Economic Advisors.

Nine Postdoctoral Fellows Here For Program in the Humanities

Nine postdoctoral teaching fellows in the humanities are here this fall under fellowships made possible by a 1975 Andrew W. Mellon Foundation endowment. The program, designed to encourage the academic growth of promising humanists with recent Ph.D. degrees, is under the direction of the Council for the Humanities with Anna Geske as director of the program.

According to Geske, more than 270 applications were reviewed in the spring by Cornell humanities departments, and four new fellows were selected by the Humanities Council to begin two-year appointments this fall: Sally Banes, Theatre Arts; Paul Hoffman, Philosophy; Chandra T. Mohanty, Women's Studies, and Miriam Silverberg, Asian Studies.

They join five who are in the second year of the appointment: Albert Bades Fernandez, Comparative Literature; Andrew L. Ford, Classics; Lionel S. Joseph, Medieval Studies; Paul R. Sullivan, Anthropology, and Jean C. Wilson, History of Art.

Banes, a 1980 graduate from the Graduate Drama Department at New York University, most recently was teaching dance history in the Dance Division of SUNY College at Purchase. Banes' research has focused on avant-garde dance, particularly American post-modern dance in the past 25 years; on that subject she has published numerous articles and two books — "Terpsichore in Sneakers: Post-Modern Dance" and "Democracy's Body: Judson Dance Theater 1961-1964." Banes has also written on the avant-garde in Paris in the 1920s and is currently working in the area of American popular dance. Courses she proposes to teach in the Department of Theatre Arts at Cornell include dance criticism, postmodern dance, and Afro-American dance.

Hoffman, who has a 1982 Ph.D. in philosophy from UCLA, comes from Harvard University where he was an assistant professor in the Department of Philosophy. A historian of modern philosophy (17th and 18th century), Hoffman has written on Descartes' philosophy of mind and his metaphysics of the human person. He will teach in the Department of Philosophy this fall a seminar on modern rationalism and in the spring a seminar on the philosophy of mind.

Mohanty, who has a 1985 Ph.D. degree from the College of Education at the University of Illinois at Urbana-Champaign, has been associated for the past two years with the Women's Studies Program at Cornell where she taught "Feminist Theory and the Challenge of Third World Feminisms." Mohanty's current work-in-progress, a book entitled "Under Western Eyes: Feminist Scholarship and Colonial Discourses," is an analysis of Western feminist writings on women in the third world. She is also co-editing a collection of essays on feminist theory and methodology called "Colonization and Resistance: The Challenge of Third World Feminisms." This fall Mohanty is teaching Women's Studies 231: "Power and Marginality: Women in the Third World."

Silverberg, who received the Ph.D. degree in history from the University of Chicago in 1984, is a specialist in modern Japanese intellectual history; she is fluent in Japanese, also has studied French and Chinese. In her dissertation, she examines the use of culture as a framework for criticism, especially as exemplified by the poet Nakano Shigeharu. Her proposed second book centers on the feminist writer Sata Ineko and elaborates on the history of working women in pre-World War II Japan. In the fall, she will teach in Asian Studies and Women's Studies the seminar "Women in Revolution."

Ending the two-year fellowship appointments are William Davies, in linguistics, who has accepted a position at California State University at Sacramento; Joel Feigin, composer, pianist, and music theorist, who under a Guggenheim Fellowship will be in Ithaca and New York City writing a new opera, "Mysteries of Eleusis," which is scheduled to be performed under Theatre Cornell's New Works Festival in April 1986; and Stephanie Vaughn, in creative writing, who will remain at Cornell as an assistant professor in the English Department's creative writing program.

Recent Graduates Give Scholarship

Cornell junior Manuel Gonzales of Miami, Fla., is spending the 1985-86 academic year at Pembroke College, Oxford University, England.

He is attending Pembroke under the Abraham and Henrietta Brettschneider Scholarship. Gonzales, a student in the New York State School of Industrial and Labor Relations at Cornell, is scheduled to return to the ILR school for his senior year in 1986-87.

The scholarship program was established in 1983 by L. Michael Borkan, a 1979 graduate of Cornell, and his brother Howard, a 1981 Cornell graduate, in honor of their grandparents and for students who have been admitted to Pembroke to study economic issues. Michael Borkan attended Pembroke after his graduation from Cornell.

Bramble Gets Honorary Degree

James H. Bramble, professor of mathematics, has been awarded an honorary doctorate by Chalmers University of Technology in Gothenburg, Sweden, for his leadership "in the theory of modern numerical methods."

The citation also states that Bramble's "elegant mathematical style is a source of inspiration to researchers throughout the world."

In addition to his research contributions, Bramble was cited for his "lasting influence on the development of Numerical Math-

ematics during his tenure as managing editor of the distinguished journal, Mathematics of Computation." He was editor of the journal from 1975 to 1984.

A member of the Cornell faculty since 1968, he holds a bachelor's degree (1953) from Brown University and master's (1955) and Ph.D. (1957) degrees from the University of Maryland. He taught at Maryland for eight years before coming to Cornell.



Cornell Chronicle

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Trustees to Meet

Continued from Page 1

Among other items on the Executive Committee's agenda:

— A recommendation for approval of the final budget request for 1986-87 for the statutory colleges, which would be submitted to the State University of New York by Sept. 10.

— A recommendation to ratify administration action in entering into an agreement with the New York State Department of Agriculture and Markets for state support of \$1.5 million for continuing operations of the Veterinary Diagnostic Laboratory from April 1, 1985 to March 31, 1986. This increase of almost \$500,000 will provide expanded testing for infectious diseases affecting domestic animals.

— A report from the president that the administration has submitted an application to the New York State Science and Technology Foundation for continuation of funding for the "Center for Biotechnology in Agriculture" in the amount of \$1 million for the fiscal year 1985-86, the same as last year.

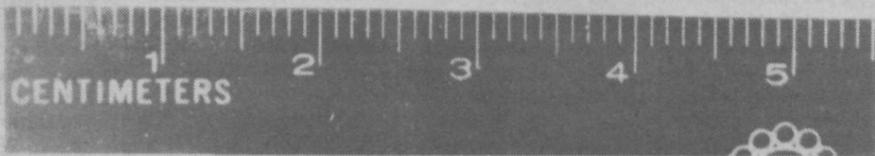
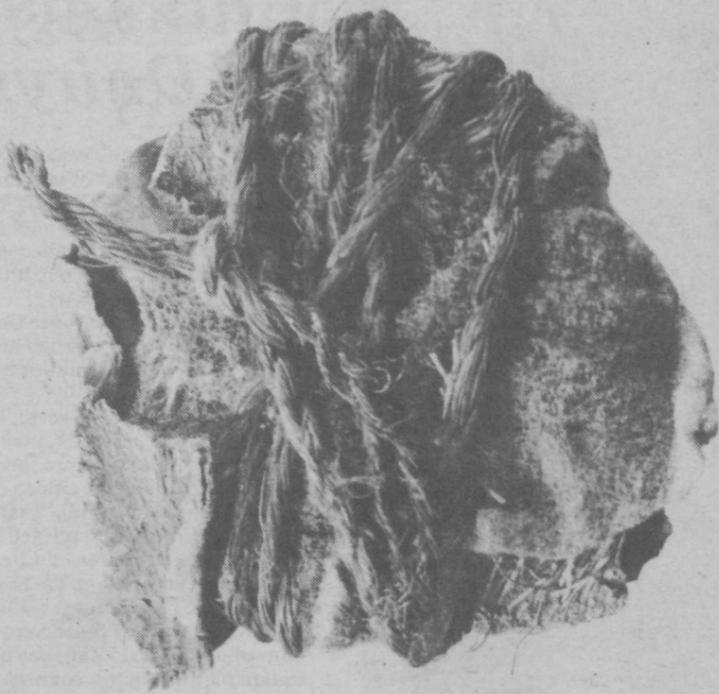
— A recommendation to ratify the administration's action in submitting a renewal proposal to the National Science Foundation for operations and research support for the Materials Science Center of \$17,765,000 for

a period of three years from May 1, 1986, through April 30, 1989.

— A report that the administration has submitted a proposal to Semiconductor Research Corp. for support of an Electronic Packaging Sciences Program, an expansion into a new area of a current SRC Program on Microscience and Technology.

— A recommendation to increase the budget for Clark Hall ventilation and energy conservation renovations from \$2,505,000 to \$2,825,000 to reflect new construction bids that came in above budget, but have been found to be accurate.

— Reports and recommendations on several personnel matters.



Perfectly dry conditions in Guitarrero Cave preserved the leather and twine around this stone tool for more than 10,000 years.



Sifting and scraping through thousands of years' of history, Cornell archaeologists at Guitarrero Cave in Peru found evidence of some of the first immigrants to South America. The year after these 1969 photographs were taken, the cave sheltered survivors of a disastrous earthquake.



Accelerator Identifies Oldest South American Textiles

By ROGER SEGELKEN

To settle questions about the oldest textiles in South America, a Cornell archaeologist has turned to a tool of modern physics, the particle accelerator.

Accelerator mass spectrometry, Cornell archaeologist Thomas F. Lynch wrote in the Aug. 30 issue of the journal *Science*, has unraveled the history of Guitarrero Cave — refuge to survivors of a 1970 earthquake, tomb for Indians 20 centuries before, and shelter for immigrants who trekked through North and South America as long as 12,500 years ago.

"Most of the remains resulted from short-term use of the cave in the eighth millennium B.C., with a possible brief human visit as early as 12,560 years ago," according to the article in the weekly publication of the American Association for the Advancement of Science.

The conclusion is based on tests of wood, textile cords, and charcoal at the Radiocarbon Accelerator Unit of Oxford University. Conducting the tests were R. Gillespie, John A.J. Gowlett and R.E.M. Hedges of the Oxford Research Laboratory for Archaeology and the History of Art.

Guitarrero Cave, located some 200 miles north of Lima, was discovered by Lynch in 1968 and excavated by a Cornell team in 1969. Conventional radiocarbon tests in the years immediately following had dated artifacts between 7,575 and 12,560 years. But radiocarbon dating left unanswered questions about the cave's history.

The more recently available method of accelerator mass spectrometry (AMS), the researchers wrote in *Science*, "makes possible the direct dating of minute samples of rare organic artifacts and cultivars, removing all question of their association with charcoal samples. Our analysis shows that the principal use of Guitarrero Cave, from which most of the remains resulted, occurred between 9,500 and 10,000 years ago.

In addition to the 10,000-year-old remains, the 1969 excavation found tombs with burials that occurred over several hundred years, around the time of Christ. Looters in prehistoric and historic times had removed much of the elaborate textiles and pottery in the tombs.

The cave was disturbed further when it sheltered refugees following a disastrous earthquake that killed more than 60,000 in the region. About two-thirds of the archaeological evidence from the earliest habitation was destroyed over the years, Lynch estimated.

Nevertheless, Guitarrero Cave is prized as housing some of the best-preserved perishable artifacts anywhere in the world. Its dry, sandy soil prevented deterioration of textiles,

leather, wood, food (beans, peppers, seeds of fruits) for more than 100 centuries.

"Guitarrero Cave was first reported as showing a very long habitation," Lynch said in an interview. "We now believe there were three periods of very short duration — perhaps only a generation at a time — when the site was occupied. There was never any doubt about the antiquity of the stone tools, but some people thought the plants, wooden tools and textiles were brought down to lower (that is, earlier) levels, perhaps by burrowing rodents."

Placing a firm date on a variety of artifacts helps archaeology's understanding of how the site was deposited and used, Lynch observed. Among the conclusions from archaeological evidence:

— The earliest inhabitants probably used the cave only seasonally, and traveled to higher elevations to hunt. Bones found in the cave include those of deer and ancestors of the modern-day llama.

— Fibrous plants were made into twine and then into textiles, using the finger-weaving technique. The twine also was used for notted net bags, similar in style to the shopping bags of today. "Their textile industry probably came across the Bering shelf, from Asia and through North America," Lynch said. "Twelve thousand years ago was a time of rapid immigration, and in one or two thousand years they worked their way through North and South America."

— Without even the simplest looms, the early cave people could not produce large, solid cloth, and are believed to have clothed themselves in animals skins that were sewn together. Tailored clothing was one of the advances that allowed the immigrants to traverse the Arctic region, and served them well in the mountains of Peru.

— The people of Guitarrero Cave were just beginning to cultivate and tend plants, which increased in size and supplemented locally gathered wild plants. In a simple but effective method of pest control, they heated weevil-infested beans in sand beside their fires; beans grew larger without the impenetrable cuticle that had protected against insects.

"The dietary habits of people living in that area have not changed in 10,000 years," Lynch said. "Use of certain fiber plants, beans, peppers and potatoes continues through today."

The use of accelerator mass spectrometry "will help archaeologists sharpen their dating methods," Lynch predicted. "Previously, it was often found that bone could not be dated by the radiocarbon method because usually there is not enough protein left. Now we believe we can date bone reliably, as well as plant products."

The AMS technique works something like a centrifuge, separating the three isotopes of carbon by weight and isolating carbon-14, with its known half-life. Testing by AMS is said to give the same accuracy as conventional radiocarbon dating but requires (and destroys) much smaller samples — a few milligrams compared with at least five grams for older radiocarbon methods.

Oxford University, which uses a tandem electrostatic accelerator, and the University of Arizona at Tucson are the only AMS facilities for archaeological dating. Particle accelerators were originally developed for the study of high-energy physics.

"This shows that the big money for high-energy physics does filter down to the other sciences," Lynch commented.



Archaeological excavation resumes in January at Catarpe, an Inca outpost in the Atacama Desert of northern Chile. Now dry and sun-baked, the region was more verdant when immigrants from the north arrived some 10,000 to 12,000 years ago.

Field Program Deadline Oct. 1

Oct. 1 is the deadline for applications to the archaeological field program in Chile, Jan. 27 through May 10, 1986.

In 1985, Professor of Anthropology Thomas F. Lynch began an NSF-sponsored study of postglacial environmental change and human adaptation to it, around a former lake in the Atacama Desert of northern Chile. During the spring term of 1986, he will integrate the research project with the third season of his archaeological field school (Archaeology 358 and 361), in which from two to 10 North American and Chilean

students will participate.

While training in diverse archaeological field methods is emphasized, students will also be directly involved with the project's research problems. These include investigation of the prehistoric role of an important Inca-period administrative center, as well as the study of the initial peopling of the Atacama region, some 10,000 to 12,000 years ago, when snow and rain filled some interior basins and maintained a more verdant countryside for the Paleo-Indian hunters and gatherers.



Students in Cornell's archaeological field school learn excavation and preservation techniques while participating in research problems.



When students returned to campus, they found that the swim team had joined the ranks of carpet merchants in a fund-raiser.

New Major Program Here Now Combines Electrical Engineering, Materials Science

A new course of study combining the high-technology fields of electrical engineering and materials science has been established here.

The first of its kind in the nation, the program will expose undergraduate students to the latest research discoveries related to the fabrication and packaging of electronic devices, according to Arthur L. Ruoff, director of the materials science and engineering department.

"The joining of these two fields is essential if the United States hopes to regain its leading position in the semiconductor field," Ruoff said. "I expect that some other leading research and engineering universities will follow our lead into this new undergraduate major."

The new major, called "electronic materials," is based in Cornell's College of Engineering. Five students who completed the course requirements for the new major before the program was formally adopted graduated with double-major bachelor of science degrees in electrical engineering and in materials science in June 1985. About one dozen students are expected to graduate with the double-major degree next spring.

Cornell has a reputation as a national leader in electrical engineering and materials science teaching and research. Cornell's academic departments in the two disciplines are both ranked in the top five nationally, and the university operates the Materials Science Center and the National Research and Resource Facility for Submicron Structures.

Research executives at firms such as General Electric, AT&T, IBM, and Xerox, in letters to Ruoff, have praised the new program for its comprehensive approach to the electronics and packaging obstacles confronting scientists and engineers striving to improve semiconductor performance.

"I cannot over emphasize how important

it is to have students well-grounded in both materials science and devices," wrote Venkatesh Narayanamurti, director of the Solid State Electronics Research Laboratory at AT&T Bell Laboratories. "The idea of a dual major is an excellent one."

"I am happy to see a program which teaches students in depth both about electronic materials and electronic devices," wrote John A. Armstrong, research division vice president of logic and memory at IBM. "These topics are of great interest to the computer industry and having both in one curriculum is doubly interesting."

Integrated circuits are small, delicate semiconductor chips containing a half-million or more transistors that communicate with each other through electrical interconnections. These interconnections consist of thin metal lines with a width 100 times smaller than the diameter of a human hair. The interconnections rest on a layer of oxides that, in the most advanced chips, are one thousand times thinner than a human hair.

Typically, electrical engineers have been concerned with improvements in circuit design, processing methods and applications of electromagnetic theory relative to semiconductors. Materials science engineers, on the other hand, have focused on the properties of materials, the growth of crystals, and the analysis of ceramics, polymers, and other materials with potential integrated circuit applications.

With the growing demand for more powerful, efficient, and smaller chips, a new type of scientific specialist who has a knowledge of high-tech materials and electronics is needed. Improvements in electrical interconnection techniques and the use of new materials will both be needed for the integrated circuit of the future, Ruoff said.

Yet, "An electrical engineer whose curriculum stresses circuit and transistor design

theory receives surprisingly little instruction on the processes and materials used to form an integrated circuit," he said. "The curriculum in the new program covers basic electrical design and solid state theory."

"Just as we need increased university, industry, and government cooperation in scientific and engineering research to improve the quality of our manufactured products and the efficiency of their production, we also need new and imaginative educational programs to meet the growing electronic and computing needs of the information society," Ruoff added.

No new courses were created for the program, but students participating in the new dual-major must study a common core curriculum that emphasizes mathematics, chemistry, physics, computing, engineering distribution, materials science, electrical sciences, and probability and statistics. The course can be completed within the typical eight semesters of full-time study.

"It has always been possible to major in one field and take several electives from the other," Ruoff said. "This new program, though, allows students to graduate as fully qualified electrical engineers and as materials science engineers."

One of the program's first graduates, Elaine Lui, conducted research in electron beam lithography at AT&T Bell Laboratories. She is conducting graduate study at Princeton University in electronic materials and devices.

'Family Matters' To Be on PBS

"Family Matters," a documentary film produced at Cornell, has been selected by PBS-TV for potential prime-time showing. During the early fall, the film will be "fed" to PBS stations throughout the nation. Individual stations then will review the film for potential showing.

"Family Matters," the recipient of the red ribbon award in the family relations/parenting category at the 1985 American Film Festival, depicts two American families struggling for survival in a society indifferent to their needs. It illustrates the impact of external stresses and sources of support on the families. By sharing their hopes and fears, the families help viewers understand what helps or hinders human growth and development in the families' workplaces, neighborhoods, schools, and social networks.

Conceived by Moncrieff Cochran, associate professor of human development and family studies in the State College of Human Ecology, the film is based on Cornell's Family Matters Project, a longitudinal cross-cultural study developed by Cochran, Professor Urie Bronfenbrenner, and Associate Professor William Cross Jr., also in the College of Human Ecology. It was directed, filmed, and edited by David Gluck and Peter Carroll of Photosynthesis Inc. in Ithaca.

Ultrafilter Cuts Costs Of Dairying

While "super cows" may be producing prodigious quantities of milk in the not too distant future, "super filters" may be separating that milk, slashing milk transport costs in half and refrigeration costs by one-third while producing a nutritious by-product that can be fed to cows.

That's not all: these super-fine filters, or ultrafiltration (UF), also can help boost cheese yields while dramatically cutting cheesemaking costs.

"Most important, however, UF allows the farmer to preprocess milk, making it a more valuable commodity to producers. As a result, farmers should be able to command a higher price for their milk," said Robert Zall, professor of food science in the State College of Agriculture and Life Sciences.

By separating milk on the molecular level down on the farm before shipping it, farmers, processors, and consumers can save millions of dollars, said Zall, one of the ultrafiltration pioneers in this country. He is wrapping up a 12-month project in Lodi, Calif., testing the viability and reliability of ultrafiltration on a commercial dairy farm for the first time. The results are highly encouraging.

"It simply makes 'cents,'" Zall said. "There's every reason to believe that UF will become very commonplace for the dairy industry."

Ultrafiltration is not new; cheesemakers in Denmark, Sweden, Ireland, and the Netherlands commonly use it in their dairy processing plants. Using it on the farm, however, is new.

Zall first tested the use of membranes on Cornell's 400-cow dairy research center in Harford. Encouraged by the results, he decided to look at its feasibility, economics, and reliability on a 900-cow farm in California.

To follow up that work, Zall is working on the formation of a consortium that will include Cornell, New York state, the dairy industry, and the manufacturers of the UF equipment. The consortium will cooperate to install membrane technology on 10 dairy farms, ranging in size from 60 to 300 cows, in New York to study the effects of Northeast climatic conditions, economics, and added value of the preprocessed milk products.

So far, Zall's ultrafiltration units, which for New York's dairy farms would be about twice the size of an average hot water heater, have processed eight million pounds of milk that made more than 800,000 pounds of cheese. The cheese is no different in appearance or quality than those made from regular, non-UF milk.

To ultrafiltrate milk, the liquid is transferred right from the milking machine and quickly "blanched" or heated for 10 seconds at 163 degrees F to stabilize it and "seal" the whey proteins. Then, it is cooled slightly and sent to the UF machine where it is circulated 30 times or more through the ultra-fine sieve that holds back proteins and fats while allowing water, salt, and milk sugars to pass through the filter.

By doing so, about half the water and milk sugar is taken out of the milk — which is about 87 percent water anyway. That means that instead of having to ship 500 pounds of milk destined for cheesemaking, a farmer needs to ship and pay for transporting only 250 pounds. The liquid that is filtered out of the milk, called the permeate, still contains nutrients that can be fed to cattle, although Zall said he foresees using it someday as a valuable base to make flavored beverages for human consumption.

At a two-to-one concentration, the milk becomes concentrated by 50 percent by the fats and proteins being held back. The concentrate can make up to 50 percent more cheese than the same amount of unconcentrated milk, Zall said. It also saves rennet costs and the fixed costs of producing cheese.

By heating the milk first, cheese yields can be increased as much as 5 percent in cottage cheese, 3 percent in cheddar cheese, and 2 percent in quark cheese.

All told, Zall estimated that cheesemakers can save at least 69 cents per hundredweight (cwt.) of cheese while the farmer can save anywhere from 8 cents per cwt. to about 34 cents, based on hauling charges.

Approval by the Food and Drug Administration is still necessary to agree or confirm that the cheese made from ultrafiltration is no different from other cheeses. Zall said he expects FDA approval this year.

New Series at Johnson Museum Explores Artistic Origins of Today's Rock Videos

"Visual Music," the first topic in this year's Expanding Cinema series at the Herbert F. Johnson Museum of Art, examines the artistic origins of rock videos. Programs are free, and will be screened in the museum's Lecture Room every Sunday at 2 p.m. from now through Oct. 6.

Rock videos, which have recently become a popular entertainment form, emerged from artistic work by experimental film and video makers. The Expanding Cinema series will situate rock videos in this historical context.

The schedule is:

Sept. 1: Works by two of the leading American filmmakers, Bruce Conner and Kenneth Anger, whose visualizations of rock music on film have had a great impact on current rock videos.

Sept. 8: "A Tribute to Len Lye," a British animator who painted and drew images di-

rectly on film scored to music, co-sponsored by the American Film Institute.

Sept. 15: Two episodes of composer Robert Ashley's "Perfect Lives" video opera, designed to present new music through the medium of television.

Sept. 22: A compilation program of music videos by artists, including Laurie Anderson, Brian Eno, and David Byrne, prepared by the Kitchen in New York City.

Sept. 29: Zbigniew Rybicki, one of the finest creators of commercial rock videos, will make a guest appearance to introduce his videos for Grandmaster Flash, Rickie Lee Jones, Art of Noise, and others.

Oct. 6: Animated rock videos for Elvis Costello, the Tom Tom Club, Miles Davis, and others; as well as television commercials, created by the Cucumber Studios in England.

Plantations Tour Draws a Crowd

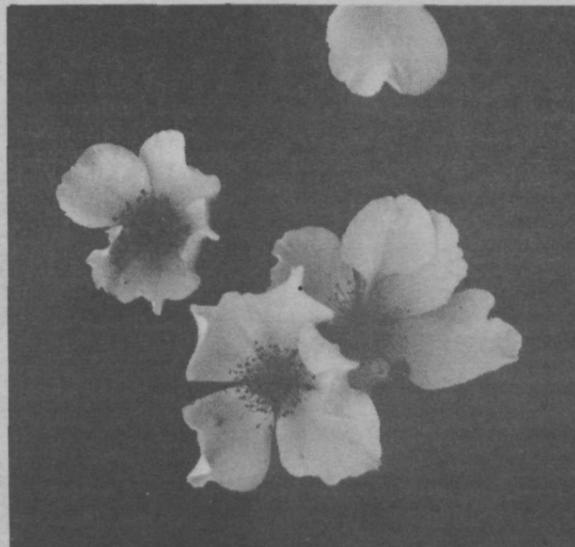


When a hiking tour of the Cornell Plantations was advertised for Aug. 24 as one of the events in the Orientation Program, it was expected that about 20 people would show up for the activity.

As it developed, more than 120 people showed up, and making himself heard with such a large group was a chore for Karl Niklas, professor of botany, who led the hike.



Dianthus (Carnation)



Clematis (Virgin's Bower)



Calendar

All items for publication in the Calendar sections, except for Seminar notices, must be submitted (typewritten, double spaced) by mail or in person to Fran Apgar, Central Reservations, 531 Willard Straight Hall at least 10 days prior to publication. Seminar notices should go to the Chronicle office, 110 Day Hall. Items should include the name and telephone number of a person who can be called if there are questions, and also the subheading of the calendar in which it should appear (lectures, colloquia, etc.) ALL DEADLINES WILL BE STRICTLY ENFORCED.

*—Admission charged.

Announcements

Ears

On behalf of Empathy, Assistance and Referral Service, fondly known as E.A.R.S., we are happy to announce that we have recently expanded our hours. Friday hours have been extended from 7-11 p.m. to 5-11 p.m. Our regular hours Sunday through Thursday, 3-11 p.m. and Saturday, 7-11 p.m. continue unchanged. E.A.R.S. provides short-term peer counseling on a walk-in as well as telephone basis; we are located in Willard Straight Hall, room 211, and our phone number is 256-EARS. All services are free and completely confidential. As ever, E.A.R.S. counselors look forward to being of support to all members of the Cornell community.

Cornell Toastmasters

Do you have a stage fright when speaking before an audience, or are you planning to speak before your committee or organization? Or would you like to meet new and different people? Then Toastmasters is for you. Toastmasters is a professional organization whose goal is to help its members become comfortable and able in public speaking and dealing with large groups of individuals.

If you are interested in joining a professional speaking club, then come and participate with the Cornell Toastmasters. First and Third Tuesdays at 5:30 p.m. in 135 Emerson Hall. Contact Rafael at 257-7669 for details.

Alternatives Library

Alternatives Library is open to the public. Wide range of materials on spirituality and self-growth. Anabel Taylor Hall. The Library has a large selection of books, periodicals, and tapes available on many religions and religion alternatives. World hunger should concern everyone. Learn more at the Alternatives Library. Open to the public.

Every Thursday

Goldwin Smith Kaufman Auditorium, 5 p.m. Cornell Coalition for Divestment general meeting. All welcome.

Gay Jews Support Group

A support group for gay Jews is being formed, to share and explore related concerns and conflicts, possible ways to confront them, exchange religious and cultural context material. If interested in taking part, please call GayPac, 256-6482. Confidentiality ensured.

Personal Growth Workshop

New series begins the week of September 9. Topics include Assertiveness, Building Self-Esteem, Building Satisfying Relationships, Stress Management, General Personal Growth, Women, Food and Self-Esteem, Coming Out (separate sections for men and women), Overcoming Writer's Block (for graduate students), and a new workshop in Family Relationships.

Free, confidential. Open to all members of the Cornell community. Signups begin Sept. 2. For more information or to sign up, call 256-3608 or stop by 103 Barnes Hall.

Apartheid South Africa

Fall 1985 Course: AS&RC #484. Title: Politics, Conflict and Social Change in Southern Africa. Description: may be used for Social Sciences. The focus is on escalating conflicts and ongoing transformation in South Africa and the increasingly salient issue of United States relations with the apartheid regime. Instructor: Locksley Edmondson; Time: 7-10 p.m. Tues., Goldwin Smith 156. CR. HRS. 4.

Women's Bowling Teams Needed

The Cornell Monday Night Women's Bowling League is in need of two, three-member teams. Bowling will start on Monday, Oct. 7, 5:15 p.m., at Helen Newman Lanes. This is a short, 22-week league. Anyone interested, please contact Judy Bower at 6-4843 between 8 a.m. and 4 p.m., or at 273-0086 after 5 p.m.

The Personal Effectiveness Seminar

This eight week program with Let Davidson, Ph.D., empowers you to make life work. Build self-awareness and self-confidence, integrity, commitment, creativity, vitality, relaxation, peace of mind. Define and accomplish your life goals. Meets eight Thursdays, 7-10 p.m., begins September 19. Call 272-4131.

Making Relationships Work

An eight-week workshop series with Let Davidson, Ph.D., on creating loving and satisfying relationships, for individuals and couples. Meets Tuesdays, 7-10:30 p.m., begins Sept. 17. Call 272-4131.

Experimental College Registration

Registration for Experimental College non-credit leisure courses will be held Sept. 9-11 from 6-8 p.m. in Willard Straight Memorial Room. Lines forming prior to 4:45 p.m. on any day will

be dispersed. Different courses will be registered on three evenings of registration. Late Registration will be held September 12 & 13 from 9 a.m. to 3 p.m. in Room 538 Willard Straight. Brochures listing complete course descriptions and registration details are available at Day Hall Information and Referral Center, Noyes Center, Robert Purcell Union and Willard Straight Hall on the Cornell campus and the Tompkins County Public Library downtown. Call 256-7131 for more information.

Intramural Soccer (Men, Women)

Deadline on entries is Mon., Sept. 9 at 4 p.m. in the Intramural Office, Helen Newman Hall. Minimum of 12 to enter. Play will be on Jessup Field. Playing days: Mon. through Thurs. evenings. (Fri. only if necessary). Please specify your preferred day (1st, 2nd, 3rd choice). You have a choice of days, not times. Forfeit fee: \$10 per team due with your roster to enter. Checks only payable to Dept. of P.E. & Ath., Intra. Div. If you do not forfeit any of your regularly scheduled games, we will void your check at the end of play.

Cornell Photographic Facilities Employees

Jeanne Appling from the Department of Environmental Health will conduct a training session on "Environmental Hazards in Photographic Processes" on Thursday, Sept. 5 at 4 p.m. in West Sibley, Room 101. This will be an information and discussion session. Particular attention will be paid to the precautions necessary in color processing. Attendance is mandatory for all Cornell employees who work in Cornell photographic facilities.

Dance

Cornell Folkdancers

The Cornell Folkdancers meet in the North Room of Willard Straight Hall on Sundays, throughout Sept. Instruction from 7-8:30 p.m., followed by request dancing till 10:30 p.m. Free; beginners welcomed; no partners needed. For more information call 256-7149 or 257-3156.

Jitterbug Workshop

Pam McKeever, a professional dance instructor from Albuquerque, New Mexico, will be teaching western swing on Sat., Sept. 7 from 2:30-5:30 p.m. in the Martha Van Auditorium. She'll teach the basics for the beginners, emphasizing leading. Pam will also teach more advanced moves for more experienced dancers. For more information call Jim Krebs at work at 256-5037.

Israeli Folk Dancing

Dancing will be held on Thursdays evenings at 8 p.m. in the One World Room of Anabel Taylor Hall. Beginners and experienced dancers welcome.

Cornell University Dance Faculty Concert

Members of the Cornell University Dance Faculty will present a concert of their new and recent choreography on Sept. 6, 7, and 8 at 8 p.m. at the Herbert F. Johnson Museum of Art. Included will be works by guest artist Karen Bell, Nancy Gaspar, Joyce Morganroth, and Lonna Wilkinson. "The Ithaca Dancemakers have long included Cornell University faculty members. Since the loss of the Dancemakers' downtown studio space, they have focused their creative work at Cornell. This performance joins Dancemakers and university faculty in a multi-faceted collaborative concert." Tickets are \$4.50; \$3.50 for Johnson Museum members, students, and senior citizens. Available at the door. For more information call 256-6464.

Exhibits

Olin Library

Graphic Shaw: photographs, drawings, posters, and engravings relating to George Bernard Shaw and his plays, many accompanied by notes by Shaw himself. Hours 10 a.m.-5 p.m., Monday through Friday. Through September 10.

Herbert F. Johnson Museum of Art

"Cornell University Art Department Faculty Exhibition, through Oct. 20. "Urban Visions: The Paintings of Ralph Fasanello" Sept. 11-Nov. 10. The Herbert F. Johnson Museum of Art, located at the corner of Central and University Avenues, is open Tuesday through Sunday, from 10 a.m.-5 p.m. The Expanding Cinema returns to the Museum this fall with its most ambitious schedule yet, making it one of the country's most extensive surveys of experimental film and video works. Expanding Cinema programs will be shown throughout the academic year, every Sunday at 2 p.m. in the museum's Lecture Room. Guest film and video artists, lecturers, and critics will be featured regularly. The Expanding Cinema is a joint program of Cornell Cinema and the Johnson Museum. All programs are free and open to the public.

The Herbert F. Johnson Museum of Art, located at the corner of University and Central Avenues on the Cornell campus, is open Tuesday through Sunday from 10:30 a.m. to 5 p.m. Admission is free.

Films

Unless otherwise noted films are sponsored by Cornell Cinema.

Famine Film Will Premiere

Robert Lieberman, a lecturer in Physics here and the author of a number of best-selling novels (most recently, "Baby") will premiere his film "Faces in a Famine" Friday and Saturday, Sept. 6 and 7, at 7:30 p.m. in Uris Auditorium.

Filmed in Ethiopia during the height of that country's disastrous drought, this is a chronicle of

the people one finds at a cataclysmic event: television producers, nurses, doctors, relief workers, priests, and "disaster groupies."

In a sensitive manner, "Faces in a Famine" succeeds in transforming the media images of starving masses into identifiable individuals: a teenage boy in his last hours, afraid to die; a mother too weak to care for her newborn infant. Moving, often heart wrenching, occasionally touching upon the bizarre, this is an unusual look at what has been



From 'Faces in a Famine.'

described as a famine of biblical proportions. The film has been picked up by the Public Broadcasting Service for national broadcast, and film distribution will be handled by the Filmmakers Library.

Lieberman will be present at both screenings to answer questions from the audience. Admission is \$2, and all proceeds will be donated to Ethiopian famine relief. This presentation is co-sponsored by the Arts College Pentangle Committee and Cornell Cinema. Advance viewings of the film can be arranged for reviewers.

French Films on Tour

The French-American Film Workshop, a program of new French films that is touring the United States, will be screened on Wednesday nights at Textor 102, Ithaca College, and Thursday nights at Cornell's Uris Auditorium, between Sept. 11 and 26. The workshop's goal is to introduce American audiences to contemporary, thought-provoking films that might not otherwise find their way across the Atlantic through established channels.

The first two programs in the series will be introduced by filmmaker Jackie Raynal, who was born in France but currently lives in New York City. On Sept. 11, she will present her latest film, "Hotel New York," along with Agnes Varda's "Documenteur" at Ithaca College. On Sept. 12, she will introduce Coline Serreau's "What Are We Waiting for to be Happy?," and will discuss the current situation of French women directors, at Uris Auditorium. The schedule for the following weeks includes "The Eyes of the Birds" (co-sponsored with Amnesty International) on Sept. 18, "Juliette's Destiny" (Sept. 19), "The Return of Christopher Columbus" (Sept. 25), and "Clementine Tango" (Sept. 26). These features will be accompanied by new short films.

This series is co-sponsored with the Ithaca College School of Communication and French Department, and Cornell's Arts College.

Friday

Sept. 6, 7:30 p.m. *Statler, "Amadeus" (1984), directed by Milos Forman, with F. Murray Abraham and Tom Hulce.

Sept. 6, 7:30 p.m. Uris Hall Auditorium. "Faces in a Famine" (1985), directed by Robert Lieberman, documentary. Co-sponsored by Arts College Pentangle Program.

Sept. 6, 10 p.m. *Uris Hall Auditorium. "Blood Simple" (1984), directed by Joel Cohen, with John Getz and Frances McDormand.

Sept. 6, 11 p.m. *Statler. "Bananas" (1971), directed by Woody Allen, with Woody Allen.

Saturday

Sept. 7, 7:15 p.m. *Statler. "The Karate Kid" (1984), directed by John G. Avildsen, with Ralph Macchio and Pat Marita.

Sept. 7, 7:30 p.m. *Uris Hall Auditorium. "Faces in a Famine."

Sept. 7, 9:45 p.m. & midnight "Blood Simple."

Sept. 7, 10 p.m. *Statler. "Amadeus" (1984), directed by Milos Forman.

Sunday

Sept. 8, 2 p.m. Johnson Museum. "Tribute to Len Lye (1929-80)." Expanding Cinema/Visual Music Series, directed by Len Lye, animation. Co-sponsored by CCPA.

Sept. 8, 8 p.m. *Uris Hall Auditorium. "Gunga Din" (1939), Cary Grant Series, directed by George Stevens, with Cary Grant and Douglas Fairbanks, Jr.

Monday

Sept. 9, 7 p.m. *Uris Hall Auditorium. "His Girl Friday" (1940), directed by Howard Hawks, with Cary Grant and Rosalind Russell. Co-sponsored by English Department.

Sept. 9, p.m. *Uris Hall Auditorium. "Body

September 1985						
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29	30					

Heat" (1981), directed by Lawrence Kasdan, with William Hurt and Kathleen Turner. Film Club members only. Passes on sale at the door.

Tuesday

Sept. 10, 8 p.m. *Uris Hall Auditorium. "All That Jazz" (1979), Autobiography Series, directed by Bob Fosse, with Roy Scheider and Jessica Lange. Shown with "Notes on the Circus" directed by Jonas Mekas.

Sept. 10, 8 p.m. *Anabel Taylor Auditorium. "Woza Albert!" (1982), Apartheid Program, produced by David M. Thompson, with Percy Mtwa, and Mbongeni Ngen. Shown with "Portrait of Nelson Mandela," directed by Frank Diamond.

Wednesday

Sept. 11, 4:30 p.m. Uris Hall Auditorium. "The Land" (1969), directed by Yusif Shaheen. Co-sponsored by Camel Breeders.

Sept. 11, 8 p.m. *Uris Hall Auditorium. "Room 666" (1982), TV Series, directed by Wim Wenders, with Jean-Luc Godard and Steven Spielberg. Shown with "Deal" (1978), directed by John Schott and E.J. Vaughn.

Thursday

Sept. 12, 8 p.m. Uris Hall Auditorium. "What Are We Waiting For To Be Happy?" with guest speaker Jackie Raynal, French American Film Workshop Series, directed by Collins Serrau. Co-sponsored by Ithaca College.

Friday

Sept. 13, 8 p.m. *Statler. "Purple Rose of Cairo" (1985), directed by Woody Allen, with Mia Farrow and Danny Aiello.

Sept. 13, 10 p.m. *Uris Hall Auditorium. "The Go-Masters" (1982), directed by Junya Sato/Duan Jishan, with Sun Daolin ad Rentaro Mikuni.

Sept. 13, 10:15 p.m. *Statler. "Hair" (1979), directed by Milos Forman, with Treat Williams and John Savage.

Saturday

Sept. 14, 7:15 p.m. *Uris Hall Auditorium. "The Go-Masters" (1982).

Sept. 14, 7:30 p.m. *Statler Auditorium. "Hair."

Sept. 14, 10 p.m. *Uris Hall Auditorium. "In The White City" (1883), directed by Alain Tanner, with Bruno Ganz and Teresa Madruga.

Sept. 14, 10:15 p.m. *Statler. "Purple Rose of Cairo."

Sunday

Sept. 15, 2 p.m. Johnson Museum. "Perfect Lives" parts 1 and 2, (1983). Expanding Cinema/Visual Music Series, directed by Robert Ashley, with David Van Tieghem and Jill Kroesen. Co-sponsored by CCPA.

Sept. 15, 8 p.m. *Uris Hall Auditorium. "The Philadelphia Story" (1940), Cary Grant Series, directed by George Cukor, with Cary Grant and Katherine Hepburn.

Lectures

Monday

Sept. 9, 7:30 p.m. Anabel Taylor One World Room. "America and World Community" Now and in the Future: an interdisciplinary course. 3 credits, open to all (undergraduates, graduates, & non-students). Featuring: Cornell Faculty, Administrators, Guest Lecturers. "The State of the World" (Global Analysis and Local Practice), Steven Jackson, Assistant Professor, Government. Sponsored by Center for World Community and IRIM, Bob Beggs, Director, 256-4864.

Wednesday

Sept. 11, 4:30 p.m. Goldwin Smith Hollis E. Cornell Auditorium. "Heidegger's Hand," by Jacques Derrida, Professor of the History of Philosophy, Ecole des Hautes Etudes en Sciences Sociales, Paris, and A.D. White Professor-at-Large.

Thursday

Sept. 12, 4:30 p.m. Rockefeller Hall 374. "Comparative Jewish and Islamic Law," Professor Gideon Libson, Hebrew University, Jerusalem, Israel. Sponsored by Near Eastern Studies.

Music

Harpichord Opens Free Concerts

The Cornell Music Department's series of free concerts will open with a harpichord recital by Sandra Mangsen Friday evening, Sept. 6. The event is scheduled for 8:15 p.m. in Barnes Hall on the University campus, and is open to the public. Mangsen's program consists of music by the leading composers of harpichord works of the first half of the 18th century: Toccatas in E minor (BWV 914) and D Major (BWV 912) by J. S. Bach, Bach's Partita IV in D (BWV 828); also a suite, Vingt-sixieme Ordre in F-sharp minor, by Francois Couperin.

Mangsen is studying for a doctoral degree in musicology at Cornell. She completed a master's degree in harpichord performance at McGill University, Quebec, under John Grew. Her teachers have also included Alan Curtis, Tom Koopman, Kenneth Gilbert and Colin Tilney. Mangsen has taught harpichord at Queen's University, Ontario, and at McGill. She has given recitals in Canada and last year at Cornell, and performed in broadcasts for CBC radio.

Great Artist Will Perform

Guest artist, harpichordist Linda Burman-Hall, will present a free public concert in Cornell's Barnes Hall at 4 p.m. Sunday, Sept. 15.

The recital is one of the year-long series of events celebrating the tercentenary of the birth of J.S. Bach, and also that of Domenico Scarlatti. Burman-Hall will play Chromatic Fantasie and

Fugue (BWV 1027) and Overture Suite in B minor (BWV 831) by Bach, and Four Sonatas by Scarlatti. The program includes a suite by J. Haydn, a composer who flourished between 1660 and 1766.

Burman-Hall is a specialist in music theory, ethnomusicology and performance practice with emphasis on Euro-American and Indonesian traditions, French Baroque and Bach. She holds the Ph.D. degree from Princeton University, and studied with Alan Curtis and Gustav Leonhardt. As a harpsichordist, organist and director of early music ensembles, she has performed with Leonhardt, Yo Yo Ma, Anner Bylisma and Cornell's John Hsu, and has recorded for Sonic Arts and Musical Heritage. Her recording of the complete harpsichord works of Boismortier will be released in 1986. Since 1974 she has served as Artistic Director of the Santa Cruz Baroque Festival and is currently Associate Professor of Music at the University of California, Santa Cruz.

Not only is Burman-Hall an authority on performance practices, but she has also done considerable research on country fiddling and will give a public lecture, entitled "Southern American Folk Fiddle Style," in Barnes Hall Thursday (Sept. 12) at 4:30 p.m. In her talk, she will examine the context of British-American traditional fiddling, with examples drawn from the four major Southern "dialects" of pre-media performance practice.

Thursday

Sept. 5, 8-11 p.m. Anabel Taylor Edwards Room. The Cornell Folk Song Club will hold a folk sing. Participants are invited to bring instruments and or a song to share, sing along, play along or just listen.

Friday

Sept. 6, 8:15 p.m. Barnes Hall. Harpsichord Recital: Sandra Mangsen. Works of Bach, Couperin.

Sunday

Sept. 8, 8-11 p.m. Anabel Taylor Commons Coffeehouse. Bound for Glory, live folk music radio broadcast on FM 93 (WVBR) featuring Diamondback Rattlers. Welcome back this outstanding bluegrass band. Performances are live and open to the public. Sets at 8:30, 9:30, and 10:30 p.m.

Thursday

Sept. 12, 4:30 p.m. Barnes Hall. Lecture by Linda Burman-Hall: "Southern American Folk Fiddle Style."

Religious Services

Catholic

Every Saturday, 5:00 p.m. Anabel Taylor Auditorium. Mass.

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

Mon.-Fri., 12:15 p.m. Anabel Taylor Chapel. Daily Mass.

Sat., 3-4 p.m. Anabel Taylor G-24. Sacrament of Reconciliation and by appointment.

Episcopal (Anglican)

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

Jewish

Every Friday, 6 p.m. Anabel Taylor Founders Room. Shabbat Services (Conservative/Egalitarian).

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

Every Friday, 7 p.m. Young Israel House, 106 West Ave. Shabbat Services (Orthodox).

Every Saturday, 9:15 a.m. Anabel Taylor Edwards Room. Shabbat Services (Orthodox). Kiddush to follow.

Every Saturday, 10 a.m. Anabel Taylor Founders Room. Shabbat Services (Conservative/Egalitarian). Kiddush to follow.

Korean Church

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

Muslim

Monday-Thursday, 1 p.m. Anabel Taylor 218.

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

Seminars

Applied Mathematics: "On Iterating the Henon Map," Prof. John Hubbard, Cornell, 4 p.m. Friday, Sept. 6, 165 Olin Hall.

Astronomy: "The Extragalactic as Seen by RA5," B. Thomas Soifer, Caltech, 4:30 p.m. Thursday, Sept. 5, 105 Space Sciences.

Boyce Thompson Institute: "The New Phytotron of the National Center of Environmental Research (GSF Munich): A Tool for Research into Forest Decline," H.D. Payer, National Center of Environmental Research, Federal Republic of Germany, 3:15 p.m. Monday, Sept. 9, BTI Auditorium.

CISER and the Statistics Center: "The Data Desk - A Statistical Package for the Macintosh," Paul Velleman, professor of economic and social statistics, 3:30 p.m. Wednesday, Sept. 11, 120 Ives Hall.

Food Science: "New Technology for Food Processing: Ultrafiltration," R.R. Zall, food science, Cornell, 4:30 p.m. Tuesday, Sept. 10, 204 Stocking Hall.

Geology: "Fractals in the Earth Sciences II," Donald Turcotte, professor and department chairman, Cornell, 4:30 p.m. Thursday, Sept. 5, 1120 Ives Hall.

History and Philosophy of Science and Technology: "The Emergence of a Modern Disease: From Anorexia Mirabilis to Anorexia Nervosa," Jan Jacobs Brumberg, associate professor, Cornell, Women's Studies and Department of Human Development, 4:35 p.m. Wednesday, Sept. 11, 165 McGraw Hall.

Mechanical and Aerospace Engineering: "Aerodynamic Methodology for Reducing Ground Vehicle Drag," Dean Hammond, General Motors Research Labs, 4:30 p.m. Tuesday, Sept. 10, 282 Grumman Hall.

Neurobiology and Behavior: "A mine Modulation of Small Motor Circuits in the Lobster," Ronald Harris-Warrick, neurobiology and behavior, Cornell, 12:30 p.m. Thursday, Sept. 5, Morrison Seminar Room, Corson/Mudd Hall.

Ornithology: "Bird Conservation in Western Europe," Herbert Axell, MBE, Royal Society for the Protection of Birds, 7:45 p.m. Monday, Sept. 9, Fuertes Room, Laboratory of Ornithology, 159 Sapsucker Woods Road.

Pathology: "The Mouse Liver as a Target Site of Environmental Toxins and Carcinogens," Dr. Jerrold M. Ward, National Cancer Institute, Frederick, MD., 4 p.m. Monday, Sept. 9, G-3 Veterinary Research Tower.

Plant Pathology: "Sorghum Downy Mildew: Problem Solved?" Richard Fredericksen, Texas A & M, 4:30 p.m. Tuesday, Sept. 10, 404 Plant Science.

Plasma Studies: "Short Wavelength Direct Drive Laser Fusion," R. McCrory, University of Rochester, 4:30 p.m. Wednesday, Sept. 11, 282 Grumman Hall.

Sports

Saturday

Sept. 14, 7:30 p.m. Scheollkopf. Men's Varsity Soccer-Brooklyn College.

Sunday

Sept. 15, 10 a.m. Cascadilla Courts. Women's Tennis-Rutgers.

Theatre

Theatre Cornell

Artistic Director David Feldshuh has announced Theatre Cornell's 1985-86 subscription season. The regional premiere of two plays by Wole Soyinka, one of Africa's most prolific and distinguished playwrights, opens the season Oct. 3. "The Trials of Brother Jero" and "Jero's Metamorphosis" will be directed by Feldshuh.

The politically timely Jero plays will run Oct. 3-5, 10-12, 17-19 at 8 p.m. and Oct. 13 at 2:30 p.m.

Theatre Cornell's second first this season will unite the theatres of Ithaca to produce the Ithaca Playwright's Retrospective. The work of Pulitzer prize-winner Sidney Kingsley will be celebrated city-wide with discussions, exhibitions, readings and full productions presented by area theatres. Stephen Cole will direct "Darkness at Noon" for Theatre Cornell. This will run in the Willard Straight Nov. 7-9, 14-16, 21-25 at 8 p.m. and Nov. 17 at 2:30 p.m.

The Ithaca community is invited to help establish a new tradition with the Dickens favorite, "A Christmas Carol". Director Feldshuh, six actors, and audience imaginations will create a lively and colorful new version of the classic. This family holiday can be celebrated nightly at 8 p.m. from Nov. 21-23, Dec. 3-7. There will be two matinees at 2:30 p.m. on Nov. 24 and Dec. 8.

Edward Payson Call, founder of the Denver Theatre Center for the Performing Arts, directs the premiere work in the new Master Director-in-Residence series. The direction of a large-cast production is only a part of this new program which allows a practicing theatre professional to interact with students and the community through workshops and special events. Call's production will open the spring season in the Willard Straight, Feb. 13-15, 20-22, 27-March 1 at 8 p.m. and Feb. 23 at 2:30 p.m.

Graduate Bulletin

The next regular meeting of the Graduate Faculty will be held at 4 p.m. Friday, Sept. 13, 1985, in the General Committee Room of the Graduate School, Sage Graduate Center, to approve the degree list for August.

Ph.D. candidates who pass their thesis defenses and submit their theses by September 20, 1985 will not have to pay a \$200 active-file fee for this semester.

Nomination of Committee forms and Change of Committee forms must be turned in by Friday, Sept. 20. Original course forms and adds are due by the same date. After that date there will be a \$10 fee. Late university registration is at the Registrar's Office, 222 Day Hall.

The Graduate Fellowship Office, 116 Sage Graduate Center, now has applications for the Fannie and John Hertz Foundation's Graduate

As part of its growing support for the American Playwright, Theatre Cornell will supplement its Monday night series of Script-in-Hand readings with the premiere of one of the new plays. Ithaca audiences can take part in the creation of a new work for the American stage as they witness its evolution from reading to full production. Performance dates of the selected new play in the Willard Straight are April 3-5 at 8 p.m. and March 30 at 2:30 p.m. Broadening its scope towards the development of new musical works, Theatre Cornell will premiere Guggenheim Fellow Joel Feigen's opera, "Mysteries of Eleusis." Feldshuh and Fred Cohn will collaborate to direct this project which runs April 23 and 25 at 8 p.m. and April 27 at 2:30 p.m.

Two Theatre Cornell traditions with new additions conclude the subscription season. Shakespeare's "All's Well that Ends Well" will be presented in the workshop setting of Drummond Lab Theatre April 24-26, May 1-3 at 8 p.m. and April 27 at 2:30 p.m. A major new work by music artist David Borden highlights "Dance '86". The dancers will be accompanied live by Borden and the New Mother Mallard Band in the Willard Straight, May 8, 9, 10 at 8 p.m. and May 11 at 2:30 p.m.

Season subscriptions are available now. Prices range from \$14 to \$21. For subscription information please call 256-5165.

Fellowship in the Applied Physical Sciences. The award consists of \$12,500 per year plus a cost-of-education allowance. High previous scholastic performance is expected of all applicants (at least an A-minus average), but outstanding achievement in scientific or technological areas will also be noted. United States citizenship is required. The deadline for submission of applications is November 1, 1985.

October 1, 1985, is the deadline for submission of applications for the American Society of Arms Collectors graduate fellowship. An annual stipend of \$2,500 is available to students and others researching the documentation of facts concerning rare or historical arms and armor. Applications are available in the Graduate Fellowship Office, Sage Hall.

Information on the above and other fellowships is available at the Graduate Fellowship Office, Sage Hall and has been sent to pertinent field offices. Students should check with their field representatives.

The reference department at Olin Library is conducting tours for new graduate students and faculty members during the first three weeks of the semester. For more information, stop by the reference desk or call 256-3319.

Barton Blotter

A total of \$5,205 in cash and valuables was reported stolen in 18 thefts on campus during the eight-day period of Aug. 26 through Sept. 2, according to the morning reports of the Department of Public Safety.

Ten of the thefts involved cash amounting to \$695.90, taken from various dormitories and other buildings on campus. These included \$275 taken from an office in Mudd Hall and a total of \$180 taken from wallets stolen in three separate thefts in Teagle Hall.

The largest single theft was \$1,929 worth of electronic equipment and tools taken from the construction site in the area of Academic II. A \$1,500 video cassette recorder was reported stolen from Hughes Hall. Other thefts included a \$200 bicycle, and \$244 in furniture taken from Cascadilla Hall.

Two persons were charged with driving while intoxicated in separate incidents. Five persons were referred to the Judicial Administrator, three on charges of stealing furniture, one for possession of a stolen sign, and another for illegally connecting to the TV cable system.



"Family Supper," a 1972 oil on canvas, is one of the works that will be shown in an exhibition at the Herbert F. Johnson Museum of Art entitled "Urban Visions: The Paintings of Ralph Fasanella," from Sept. 11 to Nov. 10.

Number 35

Cornell University

**University Personnel Services
Day Hall
Ithaca, New York 14853
607/856-8226**

Please Note:

Job Opportunities is a publication of Staffing Services and is distributed each Thursday through the Cornell Chronicle. Job Opportunities lists current vacancies within the University, consistent with the University's commitment to promotion from within, affirmative action, and equal opportunity employment.

Applications for employment are available at Cornell University's employment office at East Hill Plaza at the intersection of Ellis Hollow Road and Judd Falls Road in Ithaca, from 9:00 a.m. to 12:00 noon, Monday through Friday. Applications can be submitted through the mail to University Personnel Services, Staffing Services, 160 Day Hall, Ithaca, N.Y. 14853. For more information on jobs listed, contact Staffing Services (607) 256-5226.

N.Y. 14853. For more information on jobs listed, contact Staffing Services (607) 256-5226.

Employee Transfer Applications: Employees who wish to transfer to other jobs within the University should complete a separate Employee Transfer Application form for each position and submit them to Staffing Services. Individuals with official University layoff status will be given preference in referrals.

This listing is also available on CUINFO

Cornell University's computerized information service. For further CUINFO details, contact the Information and Referral Center at 256-6200 or Computer Services.

New vacancies are listed for two weeks in Job Opportunities.

*Asterisks identify jobs that were not listed last week.

Full-time jobs are 39 hours per week unless otherwise indicated. Jobs listed as SO, U1 and U2 are represented by bargaining units.

Position: Research Support Specialist I
Department: Horticultural Sciences,
Highland, NY

Description: Provide technical support research on physiology of fruit plants. Will care for experimental fruit plantings; apply fertilizer, growth regulators; collect growth yield and fruit quality data; collect, preserve and analyze plant tissue samples from experimental treatments; summarize and statistically analyze experimental data; conduct literature searches. Develop experimental plans.

Requirements: Bachelor's degree or equivalent in plant science; Master's degree or equivalent desirable. Should have experience in fruit cultural practices, routine chemical analysis of plant tissue; statistical analysis of experimental data; some fruit farm or research experience preferred. Please submit cover letter and resume to Cynthia Smithbower.

Minimum Starting Salary: \$14,170
Job Number: PT346

Position: Applications Programmer-Analyst III

Department: Dean's Office, Arts & Sciences

Description: Plan, supervise, and coordinate the development, implementation and maintenance of administrative information systems for two related units -- the College Arts and Sciences and the Administrative Programming Services, with approximately 50 for each unit.

Requirements: Bachelor's degree or equivalent combination of education and experience, knowledge of NATURAL and database helpful. Knowledge of interactive administrative systems, data base management, IBM operating systems, micro processors, and two major programming languages. Supervisory experience helpful. Please send cover letter and resume to Cynthia Smithbower.

Minimum Starting Salary: \$20,000
Job Number: PT337

Position: Senior Systems Programmer-Analyst

Department: Computer Services
Description: Design, implement, document, and maintain subsystems for major IBM operating systems, including MVS (using SMP-E) and VM.

Requirements: Bachelor's degree or equivalent with related computer courses. Four to six years systems programming experience and IBM 370 assembly language. In-depth knowledge of the interfaces between operating systems (including JES2 and RSCS) which provides a foundation for maintaining and adapting the software to support access control systems, accounting systems, and state-of-the-art communications providing connectivity with national and international networks. Must have demonstrated ability to exercise cost-benefit trade offs relative to current and proposed software. Please send cover letter and resume to Cynthia Smithbower.

Job Number: PT333

Position: Research-Planning Associate (Repost)

Department: Institutional Planning and Analysis

Description: Responsible for developing management information and supporting data, reporting from University data bases and conducting special studies relating to man resource issues.

Requirements: Bachelor's degree. Familiarity with institutional research or planning in a higher education environment. Some experience in data base management or analysis and interpretation of data desirable. Please send cover letter and resume to Cynthia Smithbower by September 20, 1985.

Job Number: PT4910

Position: Applications Programmer-Analyst I

Department: Dean's Office, Arts & Sciences

Description: Provide administrative programming support for Office of College Studies, and technical coordination of institutional application in academic departments.

Requirements: Bachelor's degree or equivalent. Knowledge of and interest in microcomputers is essential. Motivation, ability to work independently, and communication skills are also very important. A familiarity with data base management and statistical analysis systems and knowledge of a foreign language will be helpful. Please send cover letter and resume to Cynthia Smithbower.

Minimum Starting Salary: \$16,500
Job Number: PT336

Position: Administrative Manager I

Department: Finance and Business Office
Description: Prepare financial reports from statutory and University accounting records. Develop budgets through use of PC

Please Post

September 5, 1985

Job Opportunities

Cornell University is an equal opportunity, affirmative action employer.

Administrative/Professional

The minimum salaries listed are for recruitment purposes only.

*Position: Senior Project Leader
Department: Systems Office—Olin Library

Description: Primary consultant to the library in the development of large scale computer-based library systems. Plan and direct systems analysis, design and implementation of priority projects involving development of new online catalog, circulation systems, acquisitions systems, serials control systems, and their supporting methods and procedures.

Requirements: Bachelor's degree or equivalent experience in computer science or related fields. Minimum 9 years experience, two of which are comparable to project leader; some supervisory experience; prior programming experience required; database design, knowledge of mini—microcomputers and proficiency in ADABAS OMMS preferred; must have excellent communication and interpersonal skills. Please submit cover letter and resume to Carol Pyhtila, 201C Olin Library.

Job Number: PT354

*Position: Director of Lab Operations
Department: Equine Drug Testing & Research -Roosevelt—Yonkers Raceway

Description: Operate a field drug testing laboratory at Roosevelt and Yonkers raceways. Supervise and train six technicians. Responsible for the analysis of blood and urine samples by thin layer chromatograph and gas chromatograph. 5 days—week; 1:30 pm - 10:30 pm; Saturday, Sunday and holidays included.

Requirements: Master's degree in chemistry, biochemistry or toxicology, or Bachelor's degree and related experience. Extensive experience in isolation, purification and identification of drug and drug metabolites. TLC, GC and supervisory experience required. Please submit cover letter and resume to Cynthia Smithbower.

Job Number: PT352

*Position: Assistant Director, Cornell Fund

Department: University Development
Description: Assist in the development of programs within the Cornell Fund with a particular emphasis placed on the Reunion Class Campaigns. Design, implement and supervise programs within the Cornell Fund Annual Giving Campaign. Enlist alumni leadership, set goals and facilitate campaign objectives.

Requirements: Bachelor's degree and three or more years experience with volunteers and fund raising required. Ability to communicate persuasively both orally and in writing and good organizational ability is a strong plus. Please submit cover letter and resume to Ralph D. Jones.

Job Number: PA356

*Position: Assistant Director, Student Employment
Department: Financial Aid-Student Employment

Description: Responsible for maintaining records of expenditures and assisting with budget planning, contributing to the promotion and development of the Cornell Tradition program and coordinating the application and nomination processes for fellowship programs. Position vacancy is half-time (20 hours-week); position responsibilities are shared with another half-time Associate Director.

Requirements: Bachelor's degree or equivalent combination of educational and work

experience desired. Ability to work effectively with diverse groups; excellent oral and written communication skills essential. Please send cover letter and resume to Patricia E. Hutton.

Job Number: P359

*Position: Counselor - Therapist II
Department: University Health Services
Description: Provide professional expertise in working with a university population as a short-term therapist. Crisis intervention, campus outreach, emergency coverage, group work, couple therapy, and applied clinical research will comprise the majority of duties.

Requirements: PhD in clinical or counseling psychology from an American Psychological Association (APA) approved program. Completion of an approved APA internship required, preferably in a university setting. Please submit cover letter and resume to Ralph D. Jones by September 19, 1985.

Job Number: PA358

*Position: Senior Electrical Engineer
Department: Facilities Engineering
Description: Direct the design and preparation of cost estimates, drawings, specifications and construction documents for maintenance, repair, and alteration projects that relate to electrical projects.

Requirements: Bachelor's degree in Electrical Engineering (BSEE) and 2 years experience with indoor—outdoor lighting, power systems, and fire alarm design required. Familiarity with building codes and sound construction practices necessary. Please submit cover letter and resume to Ralph D. Jones.

Job Number: PA355

*Position: Applications Programmer III (Repost)

Department: Mechanical & Aerospace Engineering

Description: Responsible for continued development of a large, sophisticated software package. Will be involved in documentation and development of new applications and system utilities to support ongoing application development.

Requirements: Bachelor's degree or Master's in technical field. Some programming experience in PL-I, C, UNIX, color graphics and distributed processing. Please submit cover letter and resume to Cynthia Smithbower.

Job Number: PT266

*Position: Research Support Specialist I (Repost)

Department: Animal Science
Description: Participate in research to develop and test computerized management decision aids for various components of the dairy production system. Will develop computer simulation models and expert systems aimed at solving management problems. One year appointment with extension contingent upon funding.

Requirements: Bachelor of Science degree with coursework in statistics, computer science, economics and math. Ability to program, preferably Fortran and C; some experience with microcomputers such as IBM PC knowledge or interest in UNIX preferred. A knowledge of dairy production systems desirable. Please submit cover letter and resume to Cynthia Smithbower.

Job Number: PT147

*Position: Personnel Associate II
Department: Personnel Services

Description: Provide a range of administrative services, counseling and communications in connection with the Health Care Plan for Endowed Employees, Short Term Disability, Long Term Disability and Workers' Compensation.

Requirements: Bachelor's degree in Personnel Administration or related field, or significant experience in benefits administration. 2 - 3 years relevant experience in benefits administration with up-to-date knowledge of the retirement and welfare benefits areas. Good supervisory, interpersonal and organizational skills. Good written and oral communication skills essential; math aptitude. Familiarity with computers is desirable. Please submit cover letter and resume to Patricia E. Hutton.

Job Number: P353

*Position: Executive Staff Assistant I
Department: Center for Radiophysics and Space Research

Description: Provide administrative support to the Director of Planetary Studies. Handle correspondence; telephone calls; act as contact person for members of the scientific community, government officials and government agencies, the national and international press, radio and television network officials; arrange the Director's schedule; be responsible for his lectures, meetings and public appearances; handle official visits by the press or other news media, by government officials etc. to the office and laboratories of the Director of Planetary Studies. Type correspondence and scientific papers, including scientific proposals; supervise student employees.

Requirements: Bachelor's degree or equivalent. Heavy typing. Excellent secretarial skills (including knowledge of word processors). Some knowledge of foreign languages useful. Experience with the news media very helpful. Supervisory skills important. Excellent organizational, interpersonal and communication (written and oral) skills. Confidentiality essential. Please submit cover letter and resume to Esther L. Smith by September 20, 1985.

Job Number: PC341

Position: Personnel Associate II
Department: Cooperative Extension Administration

Description: Assist the Personnel Officer of Cooperative Extension with the management of the personnel function for Cooperative Extension Administration, the New York City Extension Office, and the 57 counties in New York State.

Requirements: Bachelor's degree in personnel administration or a related field and significant experience as a personnel generalist or an equivalent combination of education and experience. Excellent interpersonal and written and oral communication skills are required. Position requires significant travel throughout New York State. Please send cover letter and resume to Ralph D. Jones by September 13, 1985.

Minimum Starting Salary: \$14,170
Job Number: PA344

Position: Executive Staff Assistant I
Department: Theory Center

Description: Provide administrative and program support to Manager of Program Support and Directors of Theory Center. Act as liaison between Center administration, senior executives, faculty and corporate executives, state and national agencies and communicate university policy. Assist in establishment of Center corporate program; coordinate meetings.

Requirements: Bachelor's degree or equivalent. Minimum of three years program experience in scientific research organization. Excellent organizational and communication (written and oral) skills. Familiarity with University resources (accounting, purchasing, etc.); microcomputer. Please send cover letter and resume to Esther L. Smith by September 6, 1985.

Minimum Starting Salary: \$14,170
Job Number: PC343

Cornell Chronicle

and mainframe computer. Provide administrative assistance to College and University Administrators in budget and financial areas. Act as liaison between the statutory budget office and assigned statutory budget units. Plan and develop systems for analysis and reporting.

Requirements: Bachelor's degree in accounting or business administration or related field. Proficient use of IBM PC using financial reporting software; high level of interpersonal and organizational skills; familiarity with University accounting and administration desirable. Please send cover letter and resume to Ralph D. Jones by September 1985.

Job Number: PA339

Position: Applications Programmer - Analyst III

Department: University Registrar
Description: Direct, organize, schedule and supervise a computer programming group of 3 to 5 staff. Analyze system requirements and prepare programming specifications for programming projects conducted by this staff.

Requirements: Bachelor's degree with computer-related courses. 3 to 7 years of experience in application design and development, preferably in an interactive environment. Familiarity with IBM or WANG VS equipment preferred. Please send cover letter and resume to Cynthia Smithbower.

Minimum Starting Salary: \$20,000

Job Number: PT134

Position: Senior Technical Consultant

Department: Computer Services: Academic Computing

Description: Provide teaching and consulting support for statistical computing applications. Consult on the use of statistical methods; help users interpret statistical results. Diagnose problems users may have with hardware and software; help users select hardware and software configurations that are suitable for their data analysis needs.

Requirements: Master's degree in statistics or related area or equivalent. Extensive coursework and/or experience applying statistical methods to social science research applications preferred. Programming experience to include at least one high level language; expertise in a variety of mainframe and microcomputer statistics packages; proficiency in CMS, MVS, and DOS. Please send cover letter and resume to Cynthia Smithbower.

Job Number: PT317

Position: Systems Programmer-Analyst II (Repost)

Department: Theory Center
Description: Under general supervision, be responsible for system analysis, design, programming and documentation for a large variety of projects using an IBM mainframe. Will be the major source of software support and technical leadership for both users and other Theory Center Staff.

Requirements: Bachelor's degree or equivalent combination of education and experience. Master's degree or equivalent preferred. Three to five years' experience.

Strong technical and communications skills. Wide range of programming experience utilizing mainframe computers and high level languages, especially Fortran. Excellent writing skills. Please send cover letter and resume to Cynthia Smithbower.

Minimum Starting Salary: \$20,000

Job Number: PT186

Position: Project Manager (Repost)

Department: School of Hotel Administration

Description: Reporting to the Director of Business and Administrations, will develop, modify and maintain computer operations for the School and Statler Inn. Responsibilities include project development and implementation in addition to supervision of one programmer.

Requirements: Bachelor's degree in computer science or related field. At least three years relevant experience including project management and systems analysis. Must have working knowledge of COBOL. Familiarity with the WANG VS system desirable. Knowledge of the Cornell accounting system helpful. Familiarity with file management, report utilities, database—telecommunications and word processing concepts preferred. Prior experience in a hotel environment preferred. Please send cover letter and resume to Cynthia Smithbower.

Job Number: PT132

Clerical

Current Cornell employees should submit an employee transfer application, resume and cover letter. Outside applicants for clerical positions should submit an employment application, resume and take a Cornell University typing test (please contact the recep-

tionist at 256-5226 for an appointment). Applications and resumes typically remain active for three months; typing test scores remain on file for one year. The clerical section uses an automatic referral system; applicants are referred to positions for which they are considered qualified and competitive. Unless otherwise advertised, requests to be referred to a specific position will not be accepted. Applicants who are referred to a department for review will be contacted by the department if an interview is necessary.

NOTE: Outside applicants with training and/or experience in the following areas are encouraged to apply: typing, word processing, data entry and accounting.

*Position: Research Aide, GR21

Department: University Development
Description: Provide information for staff members engaged in development work. Locate, compile, organize and evaluate information; provide research information to be used by the president, trustees, administrators, public affairs and development staff, and alumni of Cornell.

Requirements: Bachelor's degree or equivalent. Light typing. Excellent research skills and experience with library procedures. Strong organizational and communication (written and oral) skills essential. Knowledge of Cornell particularly helpful.

Minimum Starting Salary: \$12,968

Job Number: C3522

*Position: Administrative Aide, GR21

Department: Unions and Activities
Description: Provide secretarial support for the Director of Student Activities. Assist in planning and implementation of various student oriented programs; provide account clerk support for 13 operating—appropriated accounts; supervision of two student office assistant.

Requirements: Associate's degree or equivalent preferred. Heavy typing. Minimum two years of secretarial experience. Cornell Endowed Accounting experience. Knowledge of IBM PC XT with working knowledge of Word Perfect software desired. Good communication, organizational and interpersonal skills required. Ability to work independently.

Minimum Starting Salary: \$12,968

Job Number: C3516

*Position: Administrative Aide, Capital Projects, GR20

Department: University Development
Description: Provide administrative assistance to the Assistant Director of Capital Projects. Coordinate flow and oversee completion of work within the office; prepare reports; arrange meetings; compile data; oversee production of proposals. Assist in special projects and events.

Requirements: Associate's degree or equivalent. Medium typing. Significant experience working in a busy office with considerable public contact. Ability to work with a wide range of individuals.

Minimum Starting Salary: \$12,209

Job Number: C3521

*Position: LC Cataloger, GR20

Department: Catalog—Olin Library
Description: Catalog monographs with LC copy on Romance Languages team utilizing RLIN system; authority work, shelflist; process added volumes; database maintenance activities; with some proficiency catalog with RLG member library copy. Other catalog duties as assigned.

Requirements: Bachelor's degree or equivalent experience or training. Light typing. One year previous work experience in libraries; technical services highly preferred. Ability to perform detailed work with speed and accuracy. Excellent knowledge of one romance language required. Knowledge of additional romance languages and Latin or Greek preferred.

Minimum Starting Salary: \$12,209

Job Number: C3512

*Position: Collection Representative, GR19

Department: Bursar
Description: Collect delinquent student accounts and student loans through written and telephone communications; locate delinquent borrowers through 'skip tracing'. Monday and Friday, 8:00 am - 4:30 pm; Tuesday, Wednesday and Thursday, 12:30 pm - 9:00 pm.

Requirements: High school diploma or equivalent; some college coursework preferred. Medium typing. Collection experience preferred.

Minimum Starting Salary: \$11,570

Job Number: C352

*Position: Secretary, GR19 (Repost)

Department: Center for International Studies

Description: Transcription and production of correspondence and reports; maintenance of departmental files; oversee student

employees; answer phones. Other duties as assigned.

Requirements: Associate's degree or equivalent. Heavy typing. Minimum 1 - 3 years experience. Knowledge of personal computers, transcription machines, and electronic typewriters helpful.

Minimum Starting Salary: \$11,570

Job Number: C2928

*Position: Secretary, GR18

Department: University Relations
Description: Provide secretarial support to the administrative supervisor and Acting Director of University Relations. Arrange numerous meetings; make travel arrangements; handle phone messages; type daily correspondence, drafts, confidential statements; serve as alternate to administrative supervisor when necessary.

Requirements: High school diploma or equivalent; business or secretarial school preferred. Heavy typing. Must be familiar with IBM Displaywriter. Very strong interpersonal and communication skills (telephone technique). Knowledge of campus extremely helpful.

Minimum Starting Salary: \$10,920

Job Number: C351

*Position: Secretary, GR18

Department: School of Hotel Administration

Description: Provide clerical and editorial support for both the Career—Placement and School Publications offices. Type and proofread correspondence; make reservations; use word processor for form letters; maintain mailing lists and schedule appointments; provide receptionist support to include answering telephone and receiving visitors.

Requirements: High school diploma or equivalent; business or secretarial school preferred. Medium typing. Word processing skills desirable. Understanding of print production terms and processes, as well as proofreader's symbols desirable. Excellent spelling and grammar. Good communication and interpersonal skills.

Minimum Starting Salary: \$10,920

Job Number: C3517

*Position: Secretary, GR18

Department: Center for International Studies; Peace Studies Program

Description: Provide secretarial—clerical support to Peace Studies Program. Maintain and monitor department accounts; prepare vouchers, deposit slips and reimbursements; type manuscripts.

Requirements: High school diploma or equivalent; business or secretarial school desirable. Medium typing. Minimum one to two years office experience. Knowledge of Cornell Accounting procedures and word processing equipment.

Minimum Starting Salary: \$10,920

Job Number: C358

*Position: Word Processing Operator, GR18

Department: Facilities Engineering
Description: Transcribe, type, edit, and modify documents through use of a word processor or typewriter in an efficient, effective and timely manner.

Requirements: High school diploma or equivalent; business or secretarial school desirable. Heavy typing. Minimum 2 years experience with word processing and dictation systems. Demonstrated organizational and interpersonal skills.

Minimum Starting Salary: \$10,920

Job Number: C3519

*Position: Searcher, GR18

Department: Acquisitions—Law Library
Description: Search received material on RLIN system for catalog records and authority records; search supplemental catalog and name authority file for headings needing authority work; maintain in-process area; assign classification numbers. Other duties as assigned.

Requirements: High school diploma or equivalent. Light typing. Experience with RLIN and prior library experience in a catalog area desirable.

Minimum Starting Salary: \$10,920

Job Number: C3515

*Position: Secretary, GR18 (Repost)

Department: International Student Office
Description: Serve as office receptionist and provide secretarial support for several staff members. Refer foreign students to appropriate staff members for assistance; word processing using IBM PC; file. Other duties as assigned.

Requirements: High school diploma or equivalent; business or secretarial school preferred. Medium typing. Experience in dealing with public. Ability to work under pressure and many interruptions.

Minimum Starting Salary: \$10,920

Job Number: C3215

*Position: Records Assistant, GR16

Department: Catalog—Olin Library

Description: File and type cards; input bibliographic records in RLIN computer system; search for bibliographic and authority records in various on-line and printed databases. Other duties as assigned.

Requirements: High school diploma or equivalent. Medium typing. Ability to do detailed work with skill and accuracy. Previous library experience desirable.

Minimum Starting Salary: \$9,874'

Job Number: C3513

*Position: Secretary

Department: Boyce Thompson Institute for Plant Research (Contact department directly - see below)

Description: Type manuscripts, proposals, correspondence, reports, etc. for a group of scientists. Assist at switchboard and perform other duties as assigned.

Requirements: High school diploma or equivalent. Excellent typing skills; ability to read various handwritings, and good proofreading skills. Word processing experience necessary; IBM PC experience helpful. Ability to work pleasantly and cooperatively with many different people.

Minimum Starting Salary: \$10,500

Job Number: C355

Contact: Greta Colavito, Boyce Thompson Institute, 257-2030

Position: Administrative Aide, GR20

Department: Division of Nutritional Sciences

Description: Provide administrative and secretarial support to the Expanded Food and Nutrition Education Program (EFNEP). Operate word processor; type correspondence; schedule meetings and seminars; make travel arrangements; responsible for large mailings; take meeting minutes; oversee secretary and student worker; prepare vouchers and monitor accounts.

Requirements: Associate's degree or equivalent. Medium typing. Minimum of three years office experience. Ability to operate word processor and train others in its use. Good organizational skills. Familiarity with Cornell procedures (travel, accounting, etc.). Supervisory experience helpful.

Minimum Starting Salary: \$12,209

Job Number: C342

Position: Administrative Aide, GR20

Department: Career Center - Sage
Description: Maintain departmental accounting records; travel arrangements; provide secretarial support for office; compile and prepare a monthly report of counseling statistics; handle printing and purchasing matters related to office publications; purchase and inventory office supplies.

Requirements: Associate's degree or equivalent coursework in accounting and/or equivalent work experience. Heavy typing. Experience with Cornell accounting procedures desirable. Ability to work with a variety of people with minimal supervision, under pressure and meet deadlines in a timely manner. Excellent interpersonal skills are essential.

Minimum Starting Salary: \$12,209

Job Number: C345

Position: Secretary, GR19

Department: Animal Science
Description: Type and assemble teaching materials, books, manuscripts, grant proposals, progress reports and correspondence; arrange schedules of appointments for professors and staff; order research supplies; issue requisitions and process bills for payment; handle extensive telephoning relative to professors' positions in campus and national affairs; arrange travel plans; maintain a scientific bank of references in the field of physiology.

Requirements: High school diploma or equivalent. Business or secretarial school preferred. Heavy typing. Minimum of three to five years experience in a busy office where person handles pressure of multiple deadlines. Highly experienced in and enjoys the challenge of adapting word processor to multiple needs. Experience in dealing with people from many countries and with technical and scientific terms.

Minimum Starting Salary: \$11,570

Job Number: C346

Position: Secretary, GR19

Department: Johnson Graduate School of Management

Description: Coordinate the operations of the corporate on-campus recruiting process. Manage the student bidding process for scheduling interviews; maintain and develop corporate information library; maintain the interviewing activities and interview records; assist the Placement Office in various other projects as appropriate.

Requirements: High school diploma or equivalent. Light typing. Experience with computers helpful. Must have an interest in working with computers. Library experience

Job Opportunities

Continued from Page 9

helpful but not essential. Good organizational skills; pay attention to detail.

Minimum Starting Salary: \$11,570
Job Number: C341

Position: Editorial Assistant GR18

Department: Cornell University Press

Description: Act as assistant to acquisitions editor responsible for acquisition, development and maintenance of scholarly books. Routine office duties include typing, filing, follow-up. Two year renewable appointment.

Requirements: Associate's degree or equivalent; Bachelor's degree or equivalent preferred. Heavy typing. Prior experience with book publishing helpful. Secretarial skills.

Minimum Starting Salary: \$10,920
Job Number: C344

Position: Administrative Aide, GR21

Department: State Finance & Business Office

Description: Compose letters; formulate financial reports; prepare statistical tabulations; use electronic mail; maintain monthly expenditure reports on IBM PC; answer telephone, maintain files; interact with Cornell Administration. Other projects as assigned.

Requirements: Associate's degree or equivalent. Medium typing. Secretarial or accounting experience. IBM Displaywriter preferred, knowledge of IBM PC required, technical knowledge of facilities engineering required for project specification and drawings. Must be able to work independently with minimum supervision.

Minimum Starting Salary: \$12,968
Job Number: C3123

Position: Secretary, GR20 (Repost)

Department: Chemical Engineering

Description: Provide secretarial and administrative support to Director. Draft letters and answer routine correspondence; type highly technical proposals; assemble information necessary for grant proposals and oversee completion of research proposals conforming to requirements of funding agency; make travel arrangements for Director and—visitors; maintain publications and grant files, research library, reprint files and respond to requests for reprints; assist in coordinating activities for Faculty Awards Committee and arrangements for 3-5 major meetings or conferences each year.

Requirements: Associate's degree or equivalent. Heavy typing. Minimum two to three years experience. Knowledge of word processing equipment necessary. Ability to work in a highly active environment with ability to set priorities. Excellent organizational, interpersonal and communication skills.

Minimum Starting Salary: \$12,209
Job Number: C3112

Position: Administrative Aide, GR20

Department: Johnson Graduate School of Management

Description: Provide the majority of word processing for the office of admissions. Perform some data entry functions; responsible for all office vouchers, including travel, reimbursements and billing.

Requirements: Associate's degree in secretarial science or equivalent. Medium typing. Must have experience with a word processing system such as Displaywrite, Mass 11 or equivalent. Familiarity with admissions office systems and data entry preferred.

Minimum Starting Salary: \$12,209
Job Number: C332

General Service

*Position: Media Technician, GR21 (Repost)

Department: Media Services

Description: Operate various types of broadcast and instructional color television cameras and related television equipment in a professional manner. Assist as needed in the production of educational, instructional, and documentary television productions under the leadership of the project producer and/or director. Monday - Thursday, 8:00 am - 5:00 pm; Friday, 8:00 am - 4:00 pm.

Requirements: Must have completed undergraduate degree in television production or related field or equivalent experience in broadcast or educational television may be substituted. Demonstrated experience in television or film camera operation, willingness and availability to work erratic hours including occasional weekends and evenings. Knowledge of television graphics preparation, still photography, audio recording, and stagecraft techniques very helpful. Employee may be asked to assist in the related departments of film and radio.

Minimum Starting Salary: \$12,968
Job Number: S327

*Position: Dish Machine Operator, SO17

Department: Statler Inn (Endowed)

Description: Perform supervisory responsibilities for the evening stewarding staff as well as all dish machine operator duties. 5 days-week including weekend work, 3:00 pm - 11:30 pm.

Requirements: High school diploma or equivalent desired. Supervisory experience as well as 1 year dish machine operator experience.

Minimum Starting Salary: \$5.12-hour
Job Number: S353

*Position: Sales Assistant, GR17 (Repost)

Department: Campus Store

Description: Assist manager of Computer Department with the sales & promotion of computer related products. Oversee the department in the absence of the manager. Monday - Friday, 8:30 am - 5:00 pm; every third Saturday, 10:00 am - 2:00 pm.

Requirements: High school diploma or equivalent; Associate's degree or equivalent with computer related coursework preferred. Previous selling of software in a retail environment is required. Familiarity with IBM PC, Apple-Macintosh, DEC Rainbow, Hewlett Packard computers and applicable software. Must possess strong leadership qualities and have good communication skills.

Minimum Starting Salary: \$10,366
Job Number: S325

Position: Dairy Worker, SO18

Department: Animal Science - Statutory

Description: Care and maintenance of large research dairy cattle herd and facilities where housed. Include feeding calves, assisting births, observe animal and equipment disorders. Assist as needed in other dairy cattle and equipment maintenance areas and related research and teaching support within dairy cattle unit. Five days per week, 2:30 p.m. - 11:00 p.m., weekends and holidays as required.

Requirements: High school diploma or equivalent or adequate work experience. Considerable background in dairying, ability to work alone, lift 50 lbs. Class V driver's license.

Minimum Starting Salary: \$5.41—hour
Job Number: S344

Position: Food Service Worker, SO17

Department: Cornell Dining - Endowed

Description: Planning, preparation and presentation of cold foods. Monday - Friday, 40 hours per week.

Requirements: High school diploma or equivalent. Knowledge of cold food preparation. Familiarity with kitchen equipment preferred.

Minimum Starting Salary: \$4.69—hour
Job Number: S342

Position: Food Service Worker, SO16

Department: Cornell Dining - Endowed

Description: Preparation and service of assigned food items. Sunday - Thursday, 39 hours per week.

Requirements: High school diploma or equivalent. Knowledge of food preparation and presentation. Some related experience.

Minimum Starting Salary: \$4.47—hour
Job Number: S341

Position: Custodian, SO16

Department: Residence Life - Endowed

Description: Perform maintenance and custodial care of buildings and grounds in immediate vicinity of assigned area. 7:30 a.m. - 4:00 p.m. Monday - Friday.

Requirements: High school diploma or equivalent. Ability to operate a variety of heavy power-operated equipment, climb an 8' ladder and lift 50 lbs.

Minimum Starting Salary: \$4.47—hour
Job Number: S343

Technical

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

*Position: Technician, GR22
Department: Animal Science

Description: Oversee, coordinate a research animal nutrition laboratory. Conduct, evaluate and summarize research projects in a team approach with the major investigator. Duties include lab analysis, modifying and developing analytical methods, data analysis, summarization and presentation of project results.

Requirements: Bachelor's degree or equivalent in chemistry, biology or animal sciences preferred. Some experience doing laboratory assays and some direct supervisory experience.

Minimum Starting Salary: \$13,667
Job Number: T352

*Position: Animal Health Technician, GR20

Department: Veterinary Medical Teaching Hospital

Description: Provide technical support in the sections of abdominal and small part ultrasonography as well as cardiology service.

Requirements: License or eligible for licensure as an Animal Health Technician by New York State. Some experience as a radiology technician or animal health technician extremely desirable. Apply by September 19, 1985.

Minimum Starting Salary: \$12,209
Job Number: T354

Position: Research Equipment Technician, GR25

Department: Laboratory of Plasma Studies

Description: Operate and maintain the LION accelerator and the supporting laboratory equipment. Assist experimentalists in the form of mechanical and electrical construction and performance of routine measurements. Maintenance of parts inventory.

Requirements: High school diploma or equivalent and technical training in mechanical and electrical fabrication and repair. Considerable experience in the following areas preferred: operation of hand tools, machine tools, electrical, vacuum and high voltage equipment; ability to organize, maintain records and supply inventories. Apply by September 13, 1985.

Minimum Starting Salary: \$16,239
Job Number: T344

Position: Technician, GR20

Department: Pharmacology

Description: Perform experiments and analyze the results of research aimed at understanding the role of calcium in secretion from tumor basophils and mast cells. Duties will include the usage of pH meters, centrifuge, gamma and liquid scintillation counters, spectrophotometer, fluorometer, gel filtration columns, fraction collectors, gel electrophoresis apparatus, light and fluorescence microscopes and tissue culture equipment. Will participate in experiments such as radioactive tracer flux studies, cell culture and protein purification as well as fluorometric and spectrophotometric enzyme assays.

Requirements: Bachelor's degree or equivalent in biochemistry, cell biology, physiology or similar subject. Experience in a biological sciences research laboratory is desirable but not essential. Apply by September 13, 1985.

Minimum Starting Salary: \$12,209
Job Number: T341

Position: Technician, GR19

Department: Division of Nutritional Sciences

Description: Assist principal investigator with analyses on carbohydrates and dietary fiber. Perform chromatographic analyses (GC, HPLC) and spectrophotometric analyses. Assist in dietary fiber sample preparation and fractionation. One year appointment, continuation contingent upon grant funds.

Requirements: Bachelor's degree or equivalent in biochemistry, chemistry, food science or other biological science. Familiarity with biochemical techniques. Laboratory experience in analytical chemistry. Apply by September 13, 1985.

Minimum Starting Salary: \$11,570
Job Number: T343

Position: Research Assistant I

Department: Boyce Thompson Institute - Contact department directly (see below)

Description: Assist with greenhouse evaluations of new organic compounds for herbicidal activity and with studies of photosynthesis and nitrogen nutrition in legumes. Anticipated term of employment is six to nine months, full-time.

Requirements: Bachelor's degree in biological sciences. Course work in chemistry and plant physiology desirable. Typing skills and experience with microcomputers helpful but not required.

Minimum Salary: \$11,200 annual equivalent
Contact: Dr. D.L. Sirois, Boyce Thompson Institute, 257-2030
Job Number: T346

Position: Electronics Technician, GR22
Department: Computer Services - Network Comm

Description: Responsible for installing and providing maintenance on computers, terminals, personal computers, and on the Communications Network that links the equipment to large computers.

Requirements: Associate's degree in electronics or related field. Theoretical and practical knowledge of digital and analog circuitry and of computer hardware and software technology pertaining to data communications. Apply by September 13, 1985.

Minimum Starting Salary: \$13,667
Job Number: T339

Position: Research Equipment Technician, GR22

Department: Materials Science and Engineering

Description: Design, build and modify experimental set-ups. Perform experiments and analysis related to mechanical properties of metals.

Requirements: Associate's degree in mechanical area. Some experience using machine shop equipment such as a drill press, lathe and power saws preferred. Apply by September 13, 1985.

Minimum Starting Salary: \$13,667
Job Number: T3310

Position: Research Aide, GR22

Department: Institutional Planning and Analysis

Description: Maintain and ensure the accuracy, completeness and timeliness of relating to academic personnel. Assist in collection of data for management information.

Requirements: Associate's degree or equivalent in business or data management. Familiarity with a university environment desired. Familiarity with data entry and personnel policies helpful. Apply by September 6, 1985.

Minimum Starting Salary: \$13,667
Job Number: T3321

Position: Technician, GR20

Department: Plant Breeding and Biotechnology

Description: Perform biochemical and genetic analysis of Tomato and Brassica tissues. Performance of standard molecular techniques including preparation, electrophoresis, and hybridization of nucleic acids. Operation of general lab equipment; maintenance of lab supplies; supervision of radiation work area.

Requirements: Bachelor's degree in a related biological area plus experience. Master's degree desirable. Previous related laboratory experience and demonstrated ability to work independently desirable. Apply by September 13, 1985.

Minimum Starting Salary: \$12,209
Job Number: T337

Position: Technician, GR20

Department: Agronomy

Description: Perform quantitative analysis of soil extracts using atomic absorption spectrophotometers, automated titrimeter, titration systems and some colorimetric methods. Calculate and record results, prepare reagents and standards, and perform routine maintenance on instruments.

Requirements: Bachelor's degree in chemistry or a related field with one year laboratory experience. Some atomic absorption spectrophotometer experience preferred. Computer experience desirable but not necessary. Apply by September 13, 1985.

Minimum Starting Salary: \$12,209
Job Number: T312

Part-time

*Position: Senior Night Supervisor, GR22
Department: Access-Circulation, Olin Library

Description: Oversee circulation desk book stacks during evening hours and on weekend; supervise work of student assistants in variety of routines and projects; conduct training and evaluation of student assistants; interpret circulation policy and handle problems; responsible for security of entrance building. Other duties as assigned. Sunday, Monday and Tuesday evenings; 24 hours week.

Requirements: Strong public service orientation. Demonstrated supervisory skills. Ability to work successfully with variety of people and independently. Exercise independent judgement.

Minimum Starting Salary: \$12,209-an
equivalent
Job Number: C3514

*Position: Cook, SO18

Department: Residence Life (Endowed)

Description: Clean, prepare and cook food for University owned fraternity. Cook all food preparation areas, cooking area and assist in keeping storerooms and refrigerator

trators sanitary. Aid student steward in menu planning and food purchases as needed. Must be able to work with little supervision and with student volunteers. Monday - Friday, 7:00 am - 10:00 am and 2:00 pm - 6:00 pm; Sunday, 2:00 pm - 6:00 pm. Requirements: Ability to follow recipes accurately, operate standard food preparation and cooking equipment. Experience in large quantity preparation is essential. Some experience as a cook. Good organizational skills. Ability to supervise student employees. Minimum Starting Salary: \$5.41-hour Job Number: S352

*Position: Cook, SO18
 Department: Residence Life (Endowed)
 Description: Clean, prepare and cook food for University owned fraternity. Clean all food preparation areas, cooking areas and assist in keeping storerooms and refrigerators sanitary. Aid student steward in menu planning and food purchases as needed. Must be able to work with little supervision and with student volunteers. Monday - Friday, 2 pm - 6 pm; Sundays, 1 pm - 5 pm. Requirements: Ability to follow recipes accurately, operate standard food preparation and cooking equipment. Experience in large quantity preparation is essential. Some experience as a cook. Good organizational skills. Ability to supervise student employees. Minimum Starting Salary: \$5.41-hour Job Number: S353

*Position: Security Officer
 Department: Johnson Museum
 Description: Responsible for guarding all works of art in the building, following security and safety procedures, communicating with appropriate staff members on a regular basis. Must communicate well with public. Must be available day or evenings for subbing on non-scheduled work days and for guarding of special events held at the museum. Tuesday, Saturday and Sunday, 9:45 am - 5:15 pm. Requirements: High school diploma or equivalent. Ability to work with schedules and in a group situation required. Background in the security area helpful. Good interpersonal skills. Able to stand for long periods of time. Minimum Starting Salary: \$5.11-hour Job Number: S352

*Position: Binding Assistant, GR16
 Department: Serials-Olin Library
 Description: Assist with bookmarking procedures in bindery preparation-bookmarking section; prepare and apply call number labels; paste date-due slips in appropriate items; insert magnetic strips for security systems. Other duties as assigned. Flexible hours, 20 hours-week. Requirements: High school diploma or equivalent. Medium typing. Ability to perform detailed work accurately. Manual dexterity. Minimum Starting Salary: \$9,874-annual equivalent Job Number: C3520

*Position: Custodian, SO16
 Department: Statler Inn (Endowed)
 Description: Work in Linen Room operation including sorting, storing and issuing clean linen and employee uniforms, record keeping, general cleaning and frequent telephone work. Clean hotel guest rooms when necessary. 5 days-week with weekend rotation, 8:00 am - 2:30 pm. Requirements: High school diploma or equivalent desired. Ability to read, write and perform accurate record keeping. Minimum Starting Salary: \$4.84-hour Job Number: S354

*Position: Technician, GR18
 Department: Chemistry
 Description: Assist in the day-to-day operation of the section of Laboratory Services and Safety as directed by the manager. Prepare and provide reagents and supplies required by Laboratory Services. 20 hours per week, Monday - Friday, negotiable. Requirements: Bachelor's degree or equivalent in chemistry. Knowledge of chemistry techniques and procedures. Must be able to calculate and prepare chemical solutions of specific concentrations and be familiar with basic acid and base titration. Should have solid knowledge of safety practices. Minimum Starting Salary: \$10,920-annual equivalent Job Number: T345

Temporary

TEMPORARY OPPORTUNITIES: With the approach of the new academic year, we anticipate needing individuals qualified for work in the following areas: clerical, secretarial, word processor operators (temporary and permanent); food service (temporary

and permanent) and farmworkers (temporary). If you have experience or skills in these or related areas and are interested in learning more about these opportunities, please stop by the East Hill Plaza Employment Office any Monday through Friday, 9:00 a.m. to 12:00 noon, or call Sharon Warunek at 273-1179, or Tambi Benzon or Esther Smith at 256-5226.

*Position: Temporary Systems Analyst, T-5
 Department: Modern Languages and Linguistics
 Description: Provide systems level support for new DEC PDP 11-73 and existing Callan Unistar 68000 (Unix based) computers including updates to existing software and operating systems as well as modification of speech analysis and synthesis systems. Must also train users and assist in assessing future software needs. 2 month position with possible extension on a part-time basis. Requirements: Bachelor's degree in Electrical Engineering, Computer Science or related field. 2-3 years programming experience in Fortran, familiarity with C and Macro 11 languages with analog signal processing; phonetics applications experience desirable. Please submit cover letter and resume to Cynthia Smithbower. Minimum starting salary: \$8-hour Job Number: T351

*Position: Extension Aide
 Department: Textiles and Apparel
 Description: Prepare articles for DEA News and Consumer News Service; respond to consumer questions related to textiles and apparel; research information on safety clothing for pesticide workers; manage distribution of the DEA News; manage textiles and clothing written materials; maintain kits and other educational materials; schedule and ship kits and other educational materials; assist with preparation of kits and written materials for in-service education. Other duties as assigned. Monday - Friday, 20 hours-week; until February, 1986. Requirements: Bachelor's degree with course background in textiles, clothing, design and educational methods. Writing skills, management skills and organizational ability; experience in Cooperative Extension or similar work. Please send cover letter and resume to Tambi L. Benzon. Minimum Starting Salary: \$7.00-hour Job Number: C3516

*Position: Temporary Computer Programmer (Repost)
 Department: Chemistry
 Description: Develop FPS AP Resident Disk File Management System (Primos operating system for array processor). Approximately three month, full-time position, longer on a part-time basis. Days and hours to be arranged. Requirements: Fluency in FPS APAL; familiarity with file management systems; familiarity with FPS IOCAL desirable. Contact Professor Scherage, 660 Baker Lab, 256-4034 or Bob Tuttle, 120 Baker Lab, 256-4672. Job Number: T294

*Position: Accounts Assistant
 Department: Collections-Controllers Office
 Description: Maintain data base for delinquent accounts, type correspondence, prepare vouchers and end of month reports, process incoming mail and payments, some telephone collecting. Monday - Friday, 8:00 am - 4:30 pm; September 23, 1985 - March 23, 1986. Requirements: Associate's degree or equivalent. Medium typing. Strong computer skills, strong math ability. Excellent organizational and communication skills a must. Please send cover letter and resume to Tambi L. Benzon. Minimum Starting Salary: \$5.45-hour Job Number: C353

*Position: Searcher
 Department: NYSSILR - MP Catherwood Library
 Description: Responsible for searching bibliographic records in the card catalogs, RLIN and NUC, including records for donated collections. Verify holdings and condition of titles already in the library. RLIN input, bibliographic typing and other duties as assigned by Collection Development Librarian. 20 hours-week, flexible hours; until February 5, 1986. Requirements: Associate's degree, two years of college or equivalent experience. Medium typing. Knowledge of bibliographic verification systems and tools, accuracy and ability to handle detail are required. Knowledge of French, German or Spanish desirable. Please send cover letter and resume to Tambi L. Benzon. Minimum Starting Salary: \$5.35-hour Job Number: C3518

*Position: Temporary Technical Assistant, T-1
 Department: Pomology
 Description: Provide lab assistance in the grinding of leaf samples for our Cooperative Extension Grower Service Program. Responsibilities include washing glassware, weighing out samples, as well as record keeping. 35 hours-week until January 15, 1986. Requirements: Course work in biological sciences helpful with laboratory experience preferred. Some typing skills for record keeping helpful. Good interpersonal and organizational skills. Apply by September 19, 1985. Minimum Starting Salary: \$4-hour Job Number: T353

*Position: Telephone Interviewer (Two positions)
 Department: Cornell Institute for Social and Economic Research (CISER)
 Description: Conduct telephone interviews on various research projects being conducted by the CISER Survey Research Facility. Monday - Friday, 6:00 pm - 9:00 pm; Saturday, flexible hours. Part-time temporary position through April, 1986. Requirements: High school diploma or equivalent. Previous relevant work experience required. Ability to read questions fluently, to communicate via the telephone, and to respond to questions from the persons being interviewed. Must be able to work independently. Good organizational and communication skills necessary. Please contact Patrena Deegan at 256-4801. Minimum Starting Salary: \$3.65-hour Job Number: C356

Position: Temporary Technician
 Department: Ecosystems Research Center
 Description: Primary responsibility for greenhouse research including greenhouse upkeep, sampling of plant growth, changing nutrient solutions and recording and logging of data. Independent field and lab work involved. Days and hours flexible, four days per week, eight hours per day until January, 1986. Requirements: Bachelor's degree or equivalent work experience. Previous greenhouse experience preferred. Interest in plants, ecology, etc. Ability to lift 50 lbs. and to work independently. Minimum Starting Salary: \$4.50-hour Job Number: T342

Position: Temporary Secretary, (Repost)
 Department: Theoretical & Applied Mechanics
 Description: Type technical—mathematical reports and papers for several faculty, using an IBM PC or word processor. Good organizational, communication and interpersonal skills (written and oral) required. Other duties as assigned. Please send cover letter and resume to Tambi L. Benzon. Minimum Starting Salary: \$4.50-hour Job Number: T342

Requirements: High school diploma or equivalent. Secretarial or business school preferred. Heavy typing. General office experience, technical typing, personal computer and word processing. Minimum Starting Salary: \$5.80—hour Job Number: C2717

Position: Temporary Secretary
 Department: Food Science
 Description: General support for several faculty. Extensive use of word processor to prepare manuscripts, grants, research proposals and related teaching and extension needs. Handle travel arrangements. Maintain files and general support duties. Full-time, temporary until June 30, 1986. Monday - Thursday, 8:30 - 5:00; Friday, 8:30 - 4:00. Requirements: Associate's degree in secretarial science or equivalent office experience. Heavy typing. Word processing experience helpful. Strong organizational, interpersonal and communication (written and oral) skills. Please send cover letter and resume to Tambi L. Benzon. Minimum Starting Salary: \$5.38—hour Job Number: C3314

Position: Temporary Technical Staff Writer
 Department: Food Science
 Description: Responsible for library research on specific scientific topics, particularly nutritional aspects of fatty acids; conduct literature searches, and collate publications; summarize scientific publications; assemble written overviews and write summaries. Monday - Friday, 20-30 hours per week to be arranged. Requirements: Bachelor's or Master's degree in Nutritional—biological sciences—chemistry. Medium typing. Some research experience in appropriate areas. Competence in word processing (IBM). Training and experience in technical writing. Familiarity with IBM PC essential. Please send cover letter and resume to Cynthia Smithbower by September 6, 1985. Minimum Starting Salary: \$5.00—hour Job Number: T328

Academic

Please contact department directly.
 *Position: Extension Representative
 Department: Cooperative Extension
 Contact: Frederick W. Fladd, Senior Extension Associate, Staff Development and Personnel Office, 31 Roberts Hall by September 19, 1985. Job Number: A352
 Position: Postdoctoral Associate (begins September, 1985)
 Department: Cornell Plantations
 Contact: Dr. Robert Cook, Cornell Plantations, 256-3020 Job Number: A341

Spouses Who Don't Share Financial Information Headed for Difficulty

What you don't know can hurt you, especially if the unknown information is about your spouse's financial assets and other financial transactions that affect your security. "It's very important for spouses to share financial information," says Mary Coughlan, consumer educator and legal assistant with Cornell Cooperative Extension. Unfortunately, some married couples still withhold that kind of information from each other for a variety of reasons, none of which are valid, according to Coughlan, who is in the State College of Human Ecology here. "Some spouses may not trust each other," Coughlan says. "A man may not tell his wife about a building he owns, thinking that if she doesn't know about it, she can't claim any of it if they divorce." Or, she says, people wedding for the second time may want to "hide" assets from each other to assure that children from a first marriage will inherit them. Withholding information does not achieve any of those aims, Coughlan claims. "Incomplete information complicates matters, rather than simplifying them." To have property disposed of according to their personal wishes, people should keep up-dated versions of wills stipulating those wishes. Withholding information about assets does not prevent a spouse from winning legal rights to the assets. Only a will can do that. In case of a divorce, spouses who wish to protect property rights of children from first marriages should draw up a pre-nuptial contract stating those property rights. In some instances, one spouse may believe that the other spouse cannot cope with financial responsibility or doesn't want to be bothered about it. That, too, is not a valid reason for withholding financial information that affects both spouses.

"Because women tend to outlive their husbands, most women eventually will have to cope with the financial realities of their lives, whether they or their spouse wish it so or not," Coughlan says. "Women should be prepared to take on financial responsibility before widowhood, because it becomes even more difficult if new skills have to be learned while mourning the loss of a spouse." In fact, some surviving spouses have faced extreme financial hardship although they were, in reality, well-provided for, simply because they could not handle financial management on their own or did not know what assets the other spouse had accumulated and left. Some assets may even be lost completely if the other spouse is unaware of them. Couples should itemize their assets and keep papers relating to those assets in an accessible spot. Important papers, including the names and addresses of accountants, bankers, stockbrokers, financial planners, and all other financial professionals, should be included in the file of important papers. Wills, birth certificates, titles of ownership, deeds, and all other financial papers should be stored in that file. Where those important papers are kept is up to the individuals, but spouses should keep in mind that safety deposit boxes are sealed upon the death of the person renting the box. "It may make sense for couples to rent two boxes, one in each of the person's names, and then keep each other's papers in the boxes," Coughlan says. For instance, a wife would keep her husband's papers in her box, so that she would have access to them. Or, papers could be kept in a lawyer's office or a home safe.

'Thermal Integrity' of Homes Will Be Key Factor For Future Home Purchasers, Specialist Believes

An ad for a house may read like this in the near future: "Four bedrooms, two baths, garage and thermal integrity factor of two."

Just as today's home buyers consider space, location, condition and amenities of a home when making a purchase offer, tomorrow's buyers will probably also consider the thermal integrity factor of a home, according to a Cornell Cooperative Extension housing specialist.

Thermal integrity refers to a home's ability to retain an interior heated or cooled temperature — its air tightness and overall energy efficiency.

According to Joe Laquatra of the State College of Human Ecology here, improvements that make a house more energy efficient pay off — often very well — by increasing the value of the house.

"The technology exists to make homes much more energy-efficient than they are now," he says. "But many home owners avoid putting in the more expensive energy improvements because they aren't sure they'll recover the cost of such improvements when it's time to sell the house."

Laquatra says many home owners rely on the payback method of determining the

worth of an energy improvement in the home. For instance, installing storm windows could result in energy savings that would pay back the cost of the windows in seven years.

But home owners also need to consider the investment potential of such improvements.

Laquatra recently studied a group of newly constructed homes designed for energy efficiency to determine how much their energy-saving qualities added to the sales value of the homes.

By comparing homes with different thermal integrity factors and by keeping constant other elements, such as number of bedrooms and location, he was able to compare the sales value of the more energy-efficient homes with the less energy-efficient ones.

For his study, Laquatra used a measure known as the thermal integrity factor, which measures the per square foot energy use of a home. The thermal integrity factor takes into account different components of the house and site, such as location of windows, amount and type of insulation, passive solar heat gain, house orientation, and heat gains within a house from people and appliances.

"Average, newly constructed homes have thermal integrity factors of between six and eight," he says. "The lower this factor is, the more energy efficient the house is; highly energy-efficient homes have a thermal integrity factor of three or lower."

Decreasing the thermal integrity factor of a home from four to three, for instance, by adding more insulation to the ceiling and walls, was shown to add an average \$2,510 to the value of a home.

"It's difficult to generalize the results of this study," Laquatra says. "Consumers can't automatically expect to increase the resale value of their home by \$2,500 by adding more insulation. Resale value depends on many complex factors. In general, though, decreasing the thermal integrity factor of a house does increase its value."

Other studies also have demonstrated the investment potential of energy improvements. One study, for instance, showed that a \$2,000 expense of insulating a home added to the resale value of the home dollar-for-dollar, while another study reported that adding an extra inch of insulation to the ceiling added \$500 to the home's value. Those figures will vary, however, from city to city and even house to house.

Psychology Department Film on Playground Wins a First Prize at Film Festival

"Let's Build It Together," a documentary film conceived by James B. Maas, chairman and professor of psychology at Cornell University, has won first prize as best public relations film in the 1985 Industrial Photography Film Festival. It also received the Red Ribbon award in the citizen action film category at the 1985 American Film Festival.

More than 1,500 entries were received this year in these two premier film festivals.

The 10-minute film documents the creation of a volunteer-built playground at the Mantua School in Fairfax, Va. "The playground was conceived in the wildest dreams of elementary school children, born on the design table of Robert Leathers, an imaginative architectural consultant from Ithaca, and constructed through the united efforts of the entire community," Maas explained. The playground project was a natural subject for the Department of Psychology Film

Unit, he said; thus the film was produced to demonstrate how communities can facilitate interaction, develop teamwork and build spirit by working together toward a common goal.

"Let's Build It Together" was produced, directed, and filmed by Maas. Kim Hazelrigg, a media specialist in the psychology department, was associate producer and soundrecorder. The production crew included undergraduate psychology students interested in applying principles of social and community psychology to filmmaking.

The film is being loaned free of charge to school administrators and parent-teacher groups across the country under a grant from the Exxon Education Foundation. Response to the film will be tracked to provide data on the potential of visual media to disseminate innovative ideas for volunteer-based community action projects.

10 Computer Workshops Added

Computer Services has added 10 new workshops to the fall series being offered to Cornell students, faculty and staff who want to learn more about computing. The series which includes 36 separate topics begins Sept. 9 and ends Dec. 12.

Many of the workshops deal with introductory materials requiring little or no previous computing experience, according to Irving Wiswall, Computer Services workshop coordinator. Experienced users also will find opportunities to add to their skills, he said, citing such offerings as An Introduction to Macintosh Development, Advanced Word Perfect, and Advanced Techniques Using SAS.

Microcomputer classes taught for the first time this fall have the following titles: How to Select a Printer for a Microcomputer, Connecting Microcomputers to Anything

and Everything, An Overview of the Apple Macintosh, A Hands-on Introduction to the Apple Macintosh and A Demonstration of the Data Desk on Apple Macintosh. New mainframe classes are An Introduction to UNIX, Using SAS/GRAPH with Graphics Terminal Emulators, How to Enter Data for Statistical Analysis, Using Tapes in CMS, and an Introduction to FORTRAN.

The registration procedure has been changed this year, Wiswall said. Registration is now by form and no walk-in or phone registrations are accepted. Also under the new policy, students may take any of the courses free of charge, but they must register in advance. Fees are charged to faculty and staff for many of the courses.

Registration forms and course descriptions are available at all campus terminal rooms.

Design Department Splits in Two

The Department of Design and Environmental Analysis in the State College of Human Ecology is now two departments: the Department of Design and Environmental Analysis and the Department of Textiles and Apparel.

The newly established Department of Textiles and Apparel, chaired by S. Kay Obendorf, will focus on the technology related to utilization of fibrous material resources to improve and maintain the quality of human life. The curriculum will emphasize apparel design and apparel and textile management, as well as textile science.

The new DEA, chaired by William Sims, will concentrate on three main disciplinary areas: interior design, facility planning and management, and human-environment relations. Its primary concern will be how interior environments and the policies, programs, and processes by which they are created and

managed affect the quality of life of individuals and groups in home, work, and other settings.

The State College of Human Ecology is concerned with improving the conditions that contribute to human, social, and psychological development, to healthy and safe physical environments where humans live, work, and play, to sound nutrition and health, to consumer competence and family use of resources, and to the quality and availability of human and community services that enrich family life.

Other departments in the College include Human Development and Family Studies, Consumer Economics and Housing, Human Service Studies, and the Division of Nutritional Sciences.

Group Folk Guitar Lessons At WSH Begin on Sept. 9

The Willard Straight Hall Board will again offer Phil Shapiro's Group Folk Guitar Lessons this fall.

Classes meet on Monday nights in the International Lounge of WSH starting Monday, Sept. 9. There are eight one-hour lessons. Register by coming to the first lesson. Students must supply their own guitars.

Beginners meet Mondays at 7 p.m. Intermediates meet Mondays at 8 p.m.

Persons may come to both the first week for no extra charge. The entire course costs \$24, payable at the first lesson. For further information, call Shapiro at 844-4535.

James O. Morris

A memorial service for James O. Morris, professor of Industrial and Labor Relations, has been scheduled for 4 p.m. Wednesday, Sept. 11, in the Interfaith Chapel of Anabel Taylor Hall. A reception will follow in the Founders' Room of Anabel Taylor.

A member of the Cornell faculty since 1955, Morris died June 30 after a short illness. He was 62.

An authority on American labor history he became a Spanish speaking specialist on industrial relations in Latin America.

GUEST EDITORIAL On Pulling Together Or Pulling Apart

By WILLIAM D. GUROWITZ
Vice President, Campus Affairs

I want to raise the question of how we as a community are going to act in the coming days and years. How will we as a community get along? How will we function, individually and collectively?

We are a community, a "... people with common interest living in a particular area and "... an interacting population of various kinds of individuals ... in a common location" (Webster's Seventh New Collegiate Dictionary).

Cornell has always been an open community where deeply felt concerns on many issues of local, national, and international importance can be freely expressed. It is a community with a multiplicity of aims, interests and commitments. Significant concerns should continue to be discussed, debated, and argued, with each of us free to decide where we stand on a particular issue. There will be disagreement on issues, but there should be no disagreement that the University must provide the environment for that debate, and the environment should be a free and open one. That environment should permit all members of the community to engage freely in their academic pursuits and to conduct their business. But it should be an environment where disagreement does not lead to accusation, where positions reasonably arrived at and honestly held are valued by all, and where a differing view does not cast the holder in a less than honorable position.

The events of last spring and this summer were difficult for all of us. I would like to put the pain of last spring behind us and look to the future.

There are a variety of ways to make deeply felt concerns known—to Trustees, to the Administration, to the community at large, to the person in the next room. Open debate, forums, lectures, letters, lawful demonstrations, research, and academic courses are means of raising awareness. Many members of the community are, for example, participating in the planning of a year-long series of lectures, films, and discussions about South Africa. Additional courses are being offered. There are tables at Willard Straight Hall offering information on a number of issues. These are some alternatives to activities that some have labeled civil disobedience, which others feel are coercive and in violation of the Campus Code or the law.

There are staff in the Division of Campus Life, and in other parts of the University, who are ready to work with individuals and groups in developing ideas and carrying out their programs as effectively as possible at these probably are resources available as well.

How will we act, and interact? How are we going to function as a community? Are we going to pull together, or pull apart? I would propose we do so in an open, cooperative and understanding manner. Our discussion should be free of vituperation and suspicion; our actions should be respectful of others and sensitive to the delicate balance of freedom and responsibility that protects all and maintains the integrity of the University.

Spouse Identification Cards Issued Starting Next Week

Identification cards for undergraduate and graduate students' spouses will be issued once again this fall, continuing a program that was begun in January 1984.

Beginning Monday, Sept. 9, the Dean of Students Office in 103 Barnes Hall will be authorizing the cards between 9 a.m. and 3 p.m. Monday through Friday.

Both the registered student and the card applicant must come to apply for the card, and should bring the student's valid Cornell students identification card, proof of marriage, and personal identification for the spouse. There is a \$4 charge for the card.

Small Schools Get Greater Participation In Activities; Students More Successful

Students in small schools participate more in extracurricular activities than those in larger schools, according to a recent study here. That voluntary involvement, in turn, correlates highly with success in later life.

"Students in smaller schools are facing challenges by being needed and wanted," said Phil Schoggen, professor of human development and family studies at Cornell. "These underpopulated settings reach out to students and exert more pressure on available individuals to participate in school activities."

Previous research has shown that the experiences of extracurricular activities help develop leadership skills, responsibility, cognitive and social competence, and personality development. Students in small schools, therefore, are more likely to benefit from the challenges of extracurricular activities than students in larger schools because a greater proportion of students become involved.

"Yet as enrollments dwindle and costs rise, the small high school is becoming an endangered species," Schoggen said. Small schools may be more valuable, however, than is commonly acknowledged. He pointed out, for example, that almost all of the American presidents have come from small

towns and that studies have shown a strong positive relationship between attendance at small colleges and success later in life.

In smaller schools, as well as in small colleges, towns, churches, and other institutions, there is a shortage of people relative to the jobs that have to be done.

"If people are in short supply, such participation is more important to the successful operation of the activity," Schoggen said.

In large schools and institutions, however, individuals are not "needed." "People become redundant; the individual is not essential to the operation of different activities. There are lots of others available to do the jobs," said Schoggen, who teaches in the State College of Human Ecology.

To compare student activity levels of different sized schools, Schoggen examined activities of almost 9,000 seniors in 24 schools. Senior class sizes ranged from 20 to 622 students.

The findings of the Cornell ecological psychologist provided strong confirmation that students in smaller schools participate in extracurricular activities at a much higher rate than those in larger schools.

Networking

A Cornell Newsletter Published by Employees for Employees

Frieda Alexander Dedicated Service Award Winner for September

If you don't already know her, we'd like to introduce you to Frieda Alexander, Cornell University's cashier since August, 1959. The cashier's office is the front line of the University's cash management effort, and makes sure that money coming into dozens of different University departments is deposited in the bank as quickly as possible.

Frieda and her staff also approve, sign and distribute the University's checks, handle banking and money transfer questions and problems, work with departments to improve cash handling and control procedures, and work closely with the University's bankers. She has led the cashier's office through lots of changes in the past 26 years and there are still more to come.

It was Frieda's devotion to Cornell and her contribution to making it a stronger institution for these past 26 years that prompted her staff and coworkers to nominate her for a Dedicated Service Award.

We can't think of anyone who deserves it more. When we asked the people who have worked with Frieda over the years to describe her, these were some of the words

they used: pleasant, kind, sweet, motherly, sincere, caring, genuine, cheerful, stable, dedicated, warm and outgoing.

Her staff says that she's the best boss anyone could have—very sensitive and always willing to listen. In fact, most people on campus know that Frieda is one of those people you can always rely on for help with a question or a problem. If she doesn't know the answer, she'll find out for you.

After living in the Ithaca area all of her life, Frieda now has a home on the dairy farm of her daughter and son-in-law in Maine, New York. When she's not in the cashier's office at 260 Day Hall she's on the farm helping with the animals.

Frieda is an avid baseball fan. During baseball season, she always knows the latest scores and standings, especially if the Yankees are in the running in the American League East! Before her move to the country, she was also a frequent spectator at Cornell sports events.

If you haven't met Frieda, or even if you're an old friend, stop by soon and wish her a happy 26th year at Cornell.



Frieda Alexander

Your Employee Benefits

Update to Endowed Health Care Plan Booklet Is in the Mail

Endowed employees will soon receive through campus mail information regarding the changes made to the Cornell Health Care Plan in January of 1985. This information should be inserted in the health care plan booklet for future reference.

Described in full are four cost-containment provisions adopted by the University in an effort to hold down the cost of health care coverage: second surgical opinion, same-day surgery, maintenance prescription service, and review of hospital bill claims.

Mandatory second surgical opinion: It is now mandatory to seek a second surgical opinion for certain procedures performed on a nonemergency basis. Failure to obtain a second surgical opinion for the procedures listed in the insert will reduce the reimbursement to 50 percent of the regular Plan benefit for all covered expenses associated with the surgery.

Same-day surgery. To provide an incentive to take advantage of same-day, non-emergency services, when medically appropriate, regular Plan benefits will continue to be paid for certain procedures only on an outpatient basis. Outpatient means without an overnight stay in the hospital. The procedures are described in the insert. When outpatient services could have been used for one of the designated procedures but inpatient services were chosen, the Plan will pay only 50 percent of the regular benefit for listed procedures performed on a non-emergency basis, unless a surgeon can show medical necessity.

Maintenance prescription drug service. This feature will help individuals who must use prescription medicine on a day-to-day, year-round maintenance basis save time and money. Employees using prescription medicine for one of the eligible conditions described in the insert will be able to order

Aetna Claims Supervisor Here to Answer Questions

Remember: The Aetna claims supervisor will be on campus to answer individual claims questions on September 19 and October 24 from 8:30 a.m. until 4:00 p.m. To schedule an appointment, contact Employee Benefits at 6-3937. Walk-in appointments (130 Day Hall) will also be accepted, as permitted by the schedule.

For more information, please contact Nan Nicholas or Pat Cooke at 6-3937.

up to a six-month supply of medication through a mail-order maintenance drug service.

Review of hospital bill claims. To encourage employees to review their itemized hospital bills for accuracy, Cornell will pay employees for bringing billing errors to Aetna's attention. Once an error in hospital charges is verified by Aetna, and the overcharge is refunded, Cornell will pay the employee 50 percent of the refunded overcharge, up to a maximum of \$500.

Select BENEFITS

A Select Benefits thank you is also extended to Olivia S. Mitchell, associate professor at the NYS School of Industrial and Labor Relations. Professor Mitchell was a member of the Flexible Benefits Task Force and her name was inadvertently omitted in last week's article. We're sorry.



Employee Day a Month Away

Employees should soon be receiving their invitation to participate in Employee Day '85. If you do not receive a personal invitation with an enclosed discount coupon book by the second week of September, you should contact Peg Landau, 6-7206.

This Employee Day is going to be bigger and better than ever. The date is October 5, 1985 -- Cornell vs. LaFayette. Reduced price

ticket sales will be only from September 16 - September 27. Football tickets are only \$2.00 each instead of the regular price of \$6.00. Barbecue tickets for after the game are also only \$2.00. Four tickets per employee may be purchased at these reduced prices.

The barbecue in Barton Hall will include a concert by the Big Red Band, a salute from the cheerleaders and a concert by 'Nothing But Treble.' And there are more plans in the works. Displays of employees at work will be set up for viewing. This will include department displays contributed by Plantations, Life Safety, Gannett Clinic, and many, many others. It's not too late to get your department involved. Call Peg Landau at 6-7206 for details.

My Favorite Student entries and My Favorite Employee entries will be on display. Have you sent in your coupon? There is one to fill out in this issue of Networking.

Free gifts will be given to all children under 12 and Cornell athletic posters will be free for the taking.

Cornell Medical College and Cooperative Extension employees will be special guests. This year we are asking for host families to offer lodging for Saturday evening, October 5th. Fill out the coupon if you can provide lodging. A Pancake Breakfast will be served by the Cornell Recreation Club, Sunday, October 6th. You won't even need to provide breakfast. Just bring them to the Big Red Barn and enjoy a breakfast with your friends and colleagues.

The weekend of October 5 and 6 is shaping up. There's a 'Fair' atmosphere in the air. You will want to be a part of it.

Just For Your Information

Staff Development Opportunities

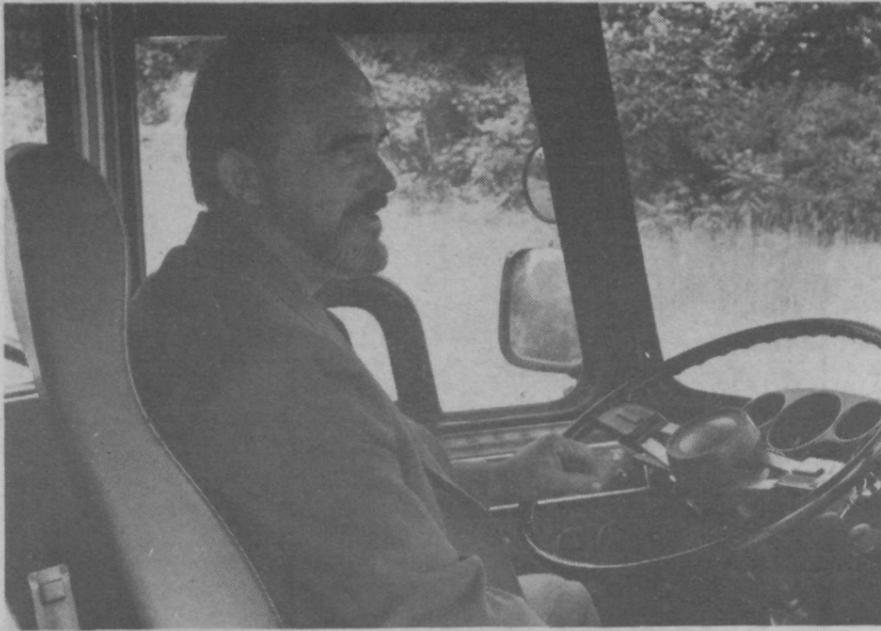
As a Cornell employee, you have the unique opportunity to participate in a variety of staff development activities.

Did you know that in 1984-85...

- ...over 100 employees were actively pursuing a Cornell degree through the Employee Degree Program?
- ...over 500 Cornell staff members enrolled in Extramural study courses?
- ...over 1100 Cornell employees participated in staff development workshops and seminars?
- ...over the course of the year, the University invested over three-quarters of a million dollars in these and other programs designed to assist Cornell employees in furthering their education?



You can obtain specific information about the Employee Degree Program, Extramural Study Program, Tuition Assistance Program and other staff development opportunities through the office of Training and Development, 111 Day Hall, 6-7400.



Around Cornell

One of the best things about a chartered bus trip is the people you meet. Often the bus driver adds a special touch to a trip with a sense of humor, a little philosophizing and tales of the road.

Don Bordenet is just such a person, and he'll be driving CU Transit's new charter buses on some of the longer trips. If you happen to meet Don, ask him about Nashville and driving a bus for the stars. He's got

great tales of fame and fortune. He also has thirteen years worth of driving experience with Swarthout and Ferris.

Here Don tries out the driver's seat of one of the new coaches. (See related story in the Chronicle.)

Got a group interested in going places? Call CU Transit at 6-3872 to charter a bus. CU Transit's new coaches have air conditioning, luggage compartments, and rest rooms.

Experimental College Offers Leisure Courses

Short, informal, noncredit courses will be offered by the Experimental College, sponsored by the Department of Unions and Activities at Cornell University. Courses will be offered in areas of dance, exercise, arts and hobbies, special interests, food and drink.

Brochures listing complete course descriptions and registration details are available at the Day Hall Information and Referral Center, Noyes Center, Robert Purcell Union and Willard Straight Hall on the Cornell campus and the Tompkins County Public Library downtown.

Course registration will be held as follows:

6:00 - 8:00 p.m.
Memorial Room, Willard Straight Hall
All lines forming before 4:45 p.m. will be dispersed!

Monday, September 9 -- Bartending courses

Tuesday, September 10 -- Dance courses

Wednesday, September 11 -- All other courses and unfilled courses

Late registration will be held September 12 and 13 from 9:00 a.m. to 3:00 p.m. in Room 538 Willard Straight Hall.

For more information, call the Experimental College office at 256-7131.

More Research Center Acronyms

by Anna Moratz
Having finished my first line I thought I had learned the gist of acronyms for programs, centers, . . . but then I met a few more mentors. A friend asked: 'Don't you have ears?' . . . (The center where she works is CLEARS!) So, here is a continuation of those letter combinations. Some months ago, a total novice in the VP Research office, I thought: 'This is a breeze -- I'll learn those acronyms with ease.' But, strictly between me and you -- how wrong I was I never knew. Some of them they left alone (Computer Graphics being one.) Biotechnology lets us know -- no caps to hide the program so. But COPSTOC, INSTOC, STS, and NRRFSS? These surely are abbreviations

Second in a Series

that require explanations! I am still learning, one by one, and fear it will go on and on. And when I think I've got them right, there's a new center overnight with a new abbreviation, like MSI -- Congratulations! Rhymes with 'Am I' and stands for the new Mathematical Sciences Institute which is a part of the Center for Applied Mathematics. The others: CLEARS Cornell Laboratory for Environmental Applications of Remote Sensing COPSTOC Cornell Program for the Study of the Continents INSTOC Institute for the Study of the Continents STS Program on Science, Technology and Society NRRFSS National Research and Resource Facility for Submicron Structures

Taking Charge of Your Own Health

by Nancy Reynolds, assistant health educator, Gannett Health Center

In a society such as ours which places great emphasis on material pursuits and financial success, "good health" is often a low priority. Our lives have become so cluttered with struggles to meet the expectations of job, peers, and family, that we tend to ignore our body's physical and emotional needs. What we often fail to realize is the extent to which our health directly affects other areas of our lives.

The fact is, the better you feel about yourself -- your appearance, your habits, and so on -- the better equipped you will be to cope with the demands and pressures of daily life. The choices you make TODAY -- in what you eat, how you spend your free time, and how you react to life's stresses -- contribute to the gradual formation of a lifelong pattern, a "lifestyle," which will either put you in control of your body, or let your body control you.

The following articles examine areas through which we can take control over our health and wellbeing. What patterns are you setting for the rest of your life? Are you in charge of your own all-around health?

Taking On Physical Challenges

by John Rumpeltes, physical therapist

Daily physical exercise is one way to prove to yourself that you have the self-discipline to take charge of your physical destiny, which will include a stronger body, mind and spirit.

George Allen, chairman of the President's Council on Physical Fitness and Sport, describes a workout as one part exertion and three parts self-discipline. If you value maintaining personal fitness, and are determined to uphold it, then each day you exercise will strengthen your self image as an organized, goal-oriented person who triumphs over any feelings of laziness and procrastination.

Personal health and wellness are the sole responsibility of each individual. If you want to get started in an exercise program or feel as though your current regime is not meeting your needs, read on. It's your body and the only one you've got. A few tips...

Honestly assess your current fitness level. If you want to increase your activity level, do so slowly. Many exercise programs have

been nipped in the bud by overzealous individuals who want to get in shape quickly. Sore muscles and exhaustion are the kinds of negative feedback which deter getting started in the first place. A novice exerciser might begin by setting a realistic goal to spend some time each day stretching. Maintaining muscle and joint flexibility in the arms, legs and trunk is a great way to become attuned to your body. It is also an excellent precursor to taking on additional fitness pursuits. Once you get started, it becomes easier to isolate clearly the further needs you have for your personal fitness.

Prioritize fitness goals and organize your available time to reasonably meet them. The amount of time you must invest will depend on the fitness needs you perceive. Aerobic conditioning which increases the efficiency of oxygen delivery throughout your body, requires 20 to 40 minutes per session at least three times a week. Weight control is optimally achieved with daily exercise of similar duration. It is better to do some exercise often, even if for a short period of time. Choosing to walk to work, if possible, gives you the opportunity for daily exertion. Take the stairs instead of the elevator. These short bouts of exercise should not be discounted for they add up and influence your overall fitness.

If you are looking for more guidance in formulating a program, explore the resources of the library or local bookstore. The Health Education Department at Gannett Health Center may refer you to other sources within the university or Ithaca community.

The hardest part of exercise is getting started. With time being precious, isolate exactly what fitness goals you have and then coordinate off hours to include specific activities that meet your needs. Once a routine emerges, it becomes less burdensome to find time to maintain a program. The positive return on this effort feels good and soon daily exercise is a part of your lifestyle. Take advantage of your body's potential. Reinforce the patterns of behavior in your life which promote health and vitality. Prove to yourself that you can take charge over your physical destiny.

("A Healthy Psychology" by Brett Steenbarger will follow next issue.)

LEADERSHIP LEADS

There are two types of leaders -- constructive and obstructive.

The obstructive leader believes that people must be coerced into accomplishing anything; that people must be controlled constantly or they will achieve nothing. Such a leader assumes that no one wants to work, so the worker must be threatened and driven. Ambition and responsibility are things that only he or she has.

The constructive leader gives few, if any, commands. A constructive leader recognizes the abilities and responsibilities of subordinates. Together they discuss and reason out the goals they want to reach. They become a team.

If the team is successful, the leader gives the individuals the credit. If the team fails, the leader takes the blame.

Authority becomes a touchy subject. Only a constructive leader can share authority without quaking. Yet responsibility without necessary authority isn't good. Few people worthy of getting a difficult job done will accept responsibility without the necessary authority.

Far too often this is not clearly defined. It must be, or the organization is in trouble. Too often, good people are given responsibility but not the authority to get the job done.

Constructive leaders, on the other hand, will sit down quietly with those who have a wide range of knowledge. They won't be 'yes-people.' They will be people who can view the whole picture to determine what went wrong. Then they will work out goals to reverse the destructive trend and to devise plans to reach those goals.

The first step is to put constructive leadership to work. This will call for leaders who will surround themselves with people who know more than the top does--people who are acknowledged experts in their fields.

The obstructive leader won't do this. The obstructive leader must show that he or she knows more than subordinates. Hence, such a leader only carries to incompetents. Incompetency breeds more of the same.

Be a constructive leader. Help people to become even better. Make them a part of the team.

My Favorite Student _____

This student is my favorite because: _____

Your name: _____

Department: _____ Address: _____

_____ Campus phone: _____

Yes, I have a guest room that I am willing to make available to a Cornell Medical College visitor on Saturday, October 5, 1985.

Name: _____

Address: _____

Telephone: Home: _____ Work: _____

Number of guests I can accommodate: _____

Please clip and return this form to:

Peg Landau University Personnel Services 130 Day Hall 6-7206	Donna Updike DEA 311 MVR 6-4429
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Breakfast with Administrators

Sept. 13: Robert Barker - University Provost

Oct. 23: Lee Snyder Director of Personnel

Nov. 21: Carol O'Brien - Director of Development

Dec. 12: Hal Craft - Director of Telecommunications

If you are an employee and would like to have breakfast with one of the above administrators, please fill in the coupon below or call Office of the Assemblies, 256-3715.

Name _____

Campus Address _____ Phone _____

I would be interested in having breakfast with:

Return coupon to Office of the Assemblies, 165 Day Hall.

FOCUS

On the Employee Assembly

Due to the geographical distance of the New York State Agricultural Experimental Station (NYSAES) from the Ithaca campus, and the need for an effective representational body to address the needs of experiment station employees, the Geneva Employee Council (GEC) was established in February, 1982. The purpose of this council is to provide employees with a means of addressing problems in the work environment as well as improving communication within the Experiment Station and with Cornell.

The GEC consists of eleven employees, three nonacademic exempt, six nonexempt and two academic with a term of two years. The basic format of the council is very similar to the Employee Assembly.

One of the major achievements of the GEC has been the establishment of the 'Sawdust Cafe,' a much-needed lunchroom facility, here on campus. The lunchroom seats 50 and derives its name from the department that previously occupied the building - the carpenter shop! Everyone pitched in to help open the lunchroom. Employees contributed time and money to decorate the room with gingham curtains and tablecloths, and hanging plants. We have a microwave, pop machine, and various other vending machines. The facility is also open to outside catering for lunches and is available for business meetings and private employee meetings.

The GEC has an active education committee which is working on an instructional McIntosh program. In the meantime, a 6-week Plant Diagnosis—Recognition course is being offered beginning in September for Geneva employees. This will cover fruit and vegetable health problems and will be presented at no cost to employees.

The council has also been involved with the establishment of an Employee Assistance Program (EAP) so employees can seek professional and personal advice on any situation either in the home or at the office.

We are looking forward to gaining a greater understanding of the ways and means of the Employee Assembly at Cornell, and hopefully will establish a communication network with our colleagues in Ithaca!



CRC members Phil Van Camp (left below) of Life Safety and Harry Dickson of Animal Science were part of a crew of volunteer workers who recently mowed the six-acres of grass on the new Cornell Recreation Club park site. Located on campus property near Freese and Hanshaw Roads, the property will eventually be a multipurpose rec-

reational park with nature trails, a baseball diamond and a swimming pool. Now that the grass has been cut, the next undertaking will be to install a septic system. The first event to be held at the new park will be a chicken barbeque on September 14.



CRC News

CRC CORNELL RECREATION CLUB

by Donna Vose

On Thursday morning, August 15, 46 CRC members and friends boarded a Swarthout and Ferris bus and traveled to Toronto for three nights and four days. Two additional members, who drove to Toronto, met us at the Ramada Inn Downtown.

Thursday evening all 48 travelers plus Don Cooper, our friendly bus driver, met in a private dining room at our hotel for a group dinner. After dinner everyone was free to do whatever -- some went for a scenic trolley ride, others walked on Yonge Street and still others went to a party!

Friday morning we boarded the bus early to spend the day at the CNE -- Canadian National Exhibition. Well, we arrived at the CNE at 8:00 a.m. and happened to be the first bus there and practically the first people. We found out that the CNE opens at 10:00 a.m. Oh well -- next year we'll know better!!

Friday evening was a free evening, some attended the Blue Jays - Kansas City baseball game, some went to the top of the CN Tower, and a group went to a seafood restaurant for dinner.

Saturday morning about 35 went to the Toronto zoo, one of the finest in the world. Others went shopping or sightseeing and one of our members even attended a wedding ceremony at the church across the street from the hotel. Hope you enjoyed it, Vi!

Saturday evening we all attended the Lighthouse Dinner Theatre, where we had front row seats for the show 'Chorus Line.'

All too soon Sunday was upon us and it was time to pack and check out. After leaving the hotel we went to Ontario Place for a couple of hours and then boarded the bus once again for our trip home. On the way home we went by way of Niagara Falls for those who had never seen the falls.

At 9:10 p.m. we arrived at 'A lot.' The weather had been perfect for our trip, with lots of sunshine.

A big thanks to our bus driver who really did a very fine job. As group leader I also

want to thank everyone that went on the trip for their patience and friendliness. You're a great group of people to be with.

Interest was expressed for another trip next year -- same time -- same place. So keep it in mind.

Another trip that was enjoyed was the trip Friday evening, August 23, to Springside Dinner Theatre, in Auburn. After an excellent dinner the group enjoyed the production of 'Guys and Dolls.'

September 7 -- Annual CRC Golf Tournament at Dryden Lake Golf Course. Call the CRC office for more information.

September 14 -- CRC park building fund chicken BBQ at the land site from 1:00-4:00 p.m. \$4.00 per person. You may purchase tickets at the CRC office. Enter Freese Road either from Varna or from Hanshaw Road (just before Ludgates). Turn west off Freese Road at Lydell Lab. Go 1/4 mile over an undeveloped dirt road. We look forward to seeing you there!

September 27-20 -- Deep sea fishing trip out of Rye, NH. \$110 per person includes tackle, bait, beer, bus and lodging. Final payment is due by Friday, September 6. There are a few seats left, so call today!

October 7 -- Pancake breakfast at the Big Red Barn -- a park fund raiser. This is the day after Employee Day.

December 7 -- Annual CRC holiday dinner dance at TC-3.

January 8-22 -- Hawaii trip. \$950, add \$25 for a nonclub member as a guest. Call the CRC office for details.

September 21 -- Vernon Downs trip. The bus will leave 'B lot' at 4:00 p.m. and return at approximately 12:30 a.m. Price of \$22 includes bus, admission to track, Miracle Mile Buffet, tax, tip. The last day to sign up is Thursday, September 12.

New slate of officers for the CRC Board: President - Andrea Hodges; Vice President - Dottie Messenger; Treasurer - Judy Bower. Other members on the Board: Ed Kabelac, Dom Versage, Darryl Dunn, Al Reed, George Peter, Gloria Howell, and Dennis Ferguson. Committee members - Recreation - Kurt Kabelac and Membership - Donna Vose.

More than 30 Staff Development Workshops Set for This Fall

A number of new courses will highlight the upcoming series of workshops and seminars offered by the Training and Development section of University Personnel Services.

Among the courses presented for the first time will be 'Making Meetings Work,' a program designed especially for staff who manage or attend meetings on a regular basis. This task-oriented program will present practical information to help you conduct more effective and productive meetings.

For the Office Professional

Continuing with emphasis on courses geared specifically to the needs of the office professional, Training and Development will present a series of three programs over the course of the Fall semester. The series will begin October 8 with 'Conflict Management for Office Professionals.' This workshop will help secretaries and administrative staff gain the skills necessary to deal effectively and productively with conflict in the workplace.

'Time Management for Office Professionals' will help participants assess their current time management system in order to develop a plan of action to eliminate time wasters and establish priorities for better time management.

In response to many requests, the comprehensive 'Seminar for Office Professionals' will be offered again, in conjunction with faculty from the NYS School of Industrial and Labor Relations. This program is designed to help participants build essential skills for improving their communication, goal setting, and professional development.

For Staff and Supervisors

Have you thought about taking a course, yet hesitated to do so because you haven't been in class for awhile? 'Returning to the Classroom?' is a new program designed to help you prepare for that move back into the 'student' role. You will evaluate your readiness for a return to class, and will set specific

learning goals.

Two new programs focusing on supervisory skills will be offered this fall. 'Improving Supervisory Effectiveness' will focus on building the skills and qualities essential for maximum effectiveness as leaders and supervisors.

'Identifying and Responding to the Troubled Employee' will offer supervisors specific methods and techniques of identifying troubled employees and assisting them through appropriate supervisory interventions and referrals. This program will be presented by staff from the Family & Children's Service of Ithaca.

TC3 Course Available

Tompkins-Cortland Community College (TC3) will offer two courses on campus this semester. Math 200 Statistics involves the application of statistical procedures to the analysis of experimental data. Econ 101 - Introduction to Economics I is an introduction to basic macro- and microeconomics theories. If you are interested in registering for these or other TC3 courses, please contact TC3 directly at 844-8211.

For additional information about these workshops and seminars, as well as other staff development opportunities available to Cornell staff, please consult your copy of the Fall C-o-n-t-a-c-t- Workshops and Seminars calendar, or contact the office of Training and Development, 111 Day Hall, 6-7400.

Watch for information on

Employee Day '85

Employee Calendar

Events of Particular Interest to Cornell Employees

Saturday, September 7. Annual CRC golf tournament. Please contact the CRC office at 6-7565 for more information.

September 9. Open Blood Pressure Screening Clinic. A.D. White House, Library. 10:00 a.m. - 12:00 noon.

September 10. Open Blood Pressure Screening Clinic. Rice Hall, room 201. 9:00 a.m. - 11:00 a.m.

September 11. Open Blood Pressure Screening Clinic. Bard Hall, lounge. 8:30 a.m. - 12:00 noon

Saturday, September 14. CRC fund raising BBQ for the CRC building fund. To be held at the new land sight! Call 6-7565 for more information.

September 17. Open Blood Pressure Screening Clinic. Graphic Arts. 8:30 a.m. - 10:00 a.m.

Wednesday, September 18. Employee Assembly meeting, 12:15 p.m., room B-8 Roberts.

Personal Growth Workshops Series

Personal Growth Workshops: new series begins the week of September 9. Topics include assertiveness, building self-esteem, building satisfying relationships, stress management, general personal growth, women, food and self-esteem, coming out (separate sections for men and women), overcoming writers' block (for graduate students), and a new workshop in family relationships.

Free, confidential. Open to all members of the Cornell community. Signups begin September 2. For more information or to sign up, call 256-3608 or stop by 103 Barnes Hall.

Poetry Contest Correction

The Networking editorial board apologizes to Michael Romano, author of 'Reflections,' first prize winner in the 'Second Annual Networking Poetry Contest.' The poem was printed incorrectly in the last issue. It is printed below in correct HAIKU format. We apologize to Michael and our readers for any confusion the misprint may have caused.

Reflections

Moon peaking through the pines
A cricket chirps beside the pond
Under the moon, over the moon.

September 19. Open Blood Pressure Screening Clinic. Clark Hall, E-18. 8:30 a.m. - 12:00 noon

September 19. Open Blood Pressure Screening Clinic. Clark Hall, conference room. 1:00 p.m. - 3:00 p.m.

Saturday, September 21. Vernon Downs trip sponsored by the CRC. The cost is \$22—members, \$5 extra for nonmembers. Price includes bus fare, entrance into the club house, the "Miracle Mile Buffet," tax and tips. Space is limited to 40 people. Call the CRC office 6-7565 for more information.

September 25. Open Blood Pressure Screening Clinic. Roberts Hall, room 8. 9:00 a.m. - 3:00 p.m.

September 26. Open Blood Pressure Screening Clinic. Baker Lab, room 132. 8:30 a.m. - 11:30 a.m.

Friday - Sunday, September 27-29. Deep sea fishing trip to the Atlantic Fleet out of Rye, NH. Sponsored by the CRC. Departure is Friday evening, arriving at the boat 5:30 a.m. on Saturday, fish until 4:30 p.m. The cost is \$110 per person, which includes motel, tackle, bait, beer and bus. Call the CRC office for further information.

September 30. Open Blood Pressure Screening Clinic. Day Hall, 3rd floor conference room. 8:30 a.m. - 4:30 p.m.

Saturday, October 5. 11th annual Employee Day! Chicken BBQ and Big Red football game. Please see article in Networking for further information.

Sunday, October 6. CRC pancake breakfast at the Big Red Barn. Everyone welcome. Please call the CRC office for price and time.

Saturday, December 7. Annual CRC holiday dinner—dance. All CRC members may attend at no cost. The event will be held at TC3 in Dryden, NY. Call the CRC office for more information 6-7565.

Wednesday, October 2. Employee Assembly meeting, 12:15 p.m. Room B-8 Roberts.

Saturday, October 5. 11th Annual Employee Day Chicken BBQ and Big Red Football Game. Please see article in this issue of Networking for further details.

Sunday, October 6. CRC Pancake Breakfast at the Big Red Barn. Everyone welcome. Please call the CRC office for further information.

Wednesday, October 16. Employee Assembly meeting, 12:15 p.m. Room B-8 Roberts Hall.

Submit listings for employee calendar to editor, University Personnel Services, 130 Day Hall.

Unclassified Ads

As of the September 19 issue of Networking, there will be some changes concerning the placement of ads, as listed below:

1. All ads should be SENT to: Carol Thurnheer, Plant Biology, Plant Sciences.
2. Ads must be typed or neatly printed.
3. NO ADS WILL BE ACCEPTED OVER THE PHONE. DO NOT CALL. Ads must be submitted in writing only.

FOR SALE: White's metal detector, 6000-DIS3, guaranteed, \$350. Back pack, internal frame, \$30. Call Peggy at 6-5530.

FOR SALE BY OWNER: House in Lansing, 3 bedroom ranch, w—full basement on one acre, wood stove in living room, 10.5 assumable FHA mortgage. Call 533-4804 evenings and weekends for an appointment. Also selling ping pong table, leather chair, love seat, car speakers, chain saw, pocket camera. Call 533-4804 evenings.

FOR SALE: 1977 Chevy Impala, good condition, new brakes, tires, muffler, 77,000 miles. Asking \$1,450. Call 277-3877 evenings.

FOR SALE: 1971 VW Super Beetle, same old story: engine and tires fine, body a disaster. \$475. Call 533-4335.

FOR SALE: 22' freezer chest and antique ice box, painted white; doubled bed mattress & springs. Call 6-3214, days. 272-6086 evenings.

FOR SALE: 8 room house, double lot. Double garage with heated shop. Equipped kitchen and laundry room. New roof '83, painted '84. Dry cellar. With mahogany dining table, 6 chairs, sideboard, \$45,000. In Cortland. 753-9112.

FOR SALE: Peugeot diesel, 504, 1979. Manual. Well maintained. \$3,200 neg. Call 277-1323.

FOR SALE: A 15 ft Thompson Sea-Coaster boat with 35 h.p. Johnson motor in excellent condition with many accessories. Also, a Honda CB100 motorcycle w—cissy bar. Excellent condition. Call 532-4302.

FOR SALE: 1981 Toyota pickup with cap, stereo, California car 62,000 miles, \$4,990. 257-2228.

FOR SALE: 1974 Dodge Dart, low mileage, slant 6 engine, runs well, but rusty. \$350. Call Yarrow, 564-3427 or Tues., Wed., Thurs., 6-2009.

FOR SALE: 1976 Renault LeCar, 68,000 miles, from California, orange, \$700 or best offer. Call Jim 6-5132.

FOR SALE: 10-speed Centurion Super LeMans bicycle, 21' light blue frame, alloy rims, lightweight, pump and water bottle with cage. Recent complete overhaul. Nev-

er ridden in winter. \$200 or best offer. Call Michael 272-0114 or 6-7490.

FOR SALE: VW Dasher, hatchback, 1976, 62,000 miles. Fair body \$1,000. 272-4107.

FOR SALE: Contemporary platform love-seat, dark orange vinyl; large brown ceramic table lamp; two twin bedspreads with curtains, red print and white print; musical jewelry chest; glass pitchers; fondue set; lettuce spinner. 273-6747 evenings.

FOR SALE: Commodore 64 with disk drive and modem. Like new, \$300. Call 539-6595.

FOR SALE: Buck wood stove with glass doors and thermostatically controlled blower (2 speed), includes stoveboard, chimney, grate and misc. accessories, \$600. GE air conditioner, \$30. Aquariums and bird cages. 273-3376 (evenings or weekends).

FOR SALE: 1975 Dodge Monaco, under 80,000 miles, PS, PB, AM—FM, air, little rust, good running condition. Excellent winter or 2nd car, \$1,000. Days 6-2235, after 6 p.m. 564-3372, Liz.

FOR SALE: Wooden dinette set, \$100. Call 272-2253 after 5:30 p.m.

FOR SALE: 1978 Honda Accord, ex. mech. cond., 40 mpg, highway, 93,000 miles, many new parts. 5 speed, sacrifice \$1,200. Joe 6-4840, 273-8627.

FOR SALE: Classic Singer sewing machine with cabinet, electrified and working, \$50. Double bed complete, \$25. B&W portable T.V., \$15. Tire rims many sizes, \$5 each. Call Paula 273-7458.

FOR SALE: Dehumidifier, one year old. New condition. Evenings 272-8897.

FOR SALE: Crib mattress to fit standard size crib. 272-3029 anytime.

FOR SALE: 'Pick of the Litter' male Rotweiler puppy, 6 months, shots and papers, \$425. Console, walnut stereo system, includes turntable, AM—FM radio and reel to reel system, external hook up for cassette or 8 track and extra speakers. Negotiable. 21 cubic feet freezer (neg.). Call evenings 257-0205 until 11:00 p.m.

FOR SALE: 3—4' (U-matic) cassette video tapes. 12 (60 min.) tapes; 8 (50 min.) tapes; 1 (30 min.) tape; and 6 (10 min.) tapes. Used one time. Call 273-7510 or 6-3608, ask for Howard or leave message.

FOR RENT: Furnished and carpeted rooms in 4 and 6 bedrooms. Collegetown apartment on East State Street. Washer and dryer in the building. 10 month lease available, \$175-\$185 includes all utilities. For appointment, call 257-0018 (4:00 - 11:00 p.m. only).

WANTED: Canopy bed, twin size, suitable for little girl. 6-3541.

WANTED: Woman with out-of-town home, commutes to Cornell, needs inexpensive sleeping room. Mondays - Thursdays. Travels frequently, gone vacations and holidays. Call 387-9022 evenings.

WANTED: Interior french doors. Call 6-5069 evenings or leave message 539-7668.

WANTED: Home for amiable 4 year old male, neutered cat. 100% inside. Fully declawed and current on all shots. Call 533-4335.

Please submit all Unclassified Ads to Carol Thurnheer, Plant Biology, Plant Sciences Building. NO ADS WILL BE ACCEPTED OVER THE PHONE. The deadline for the September 19th issue of Networking is September 10th.

Editorial Board

Donna Updike	John Bender
Mary Jamison	Mary Ellen Jones
George Peter	Anna Moratz
Ron Parks	Dominic Versage
Linda Rossi	Leona House
Margaret Seacord	Jim Kuehl
Stacey Coil	Carol Thurnheer

UNIVERSITY PERSONNEL LIAISON

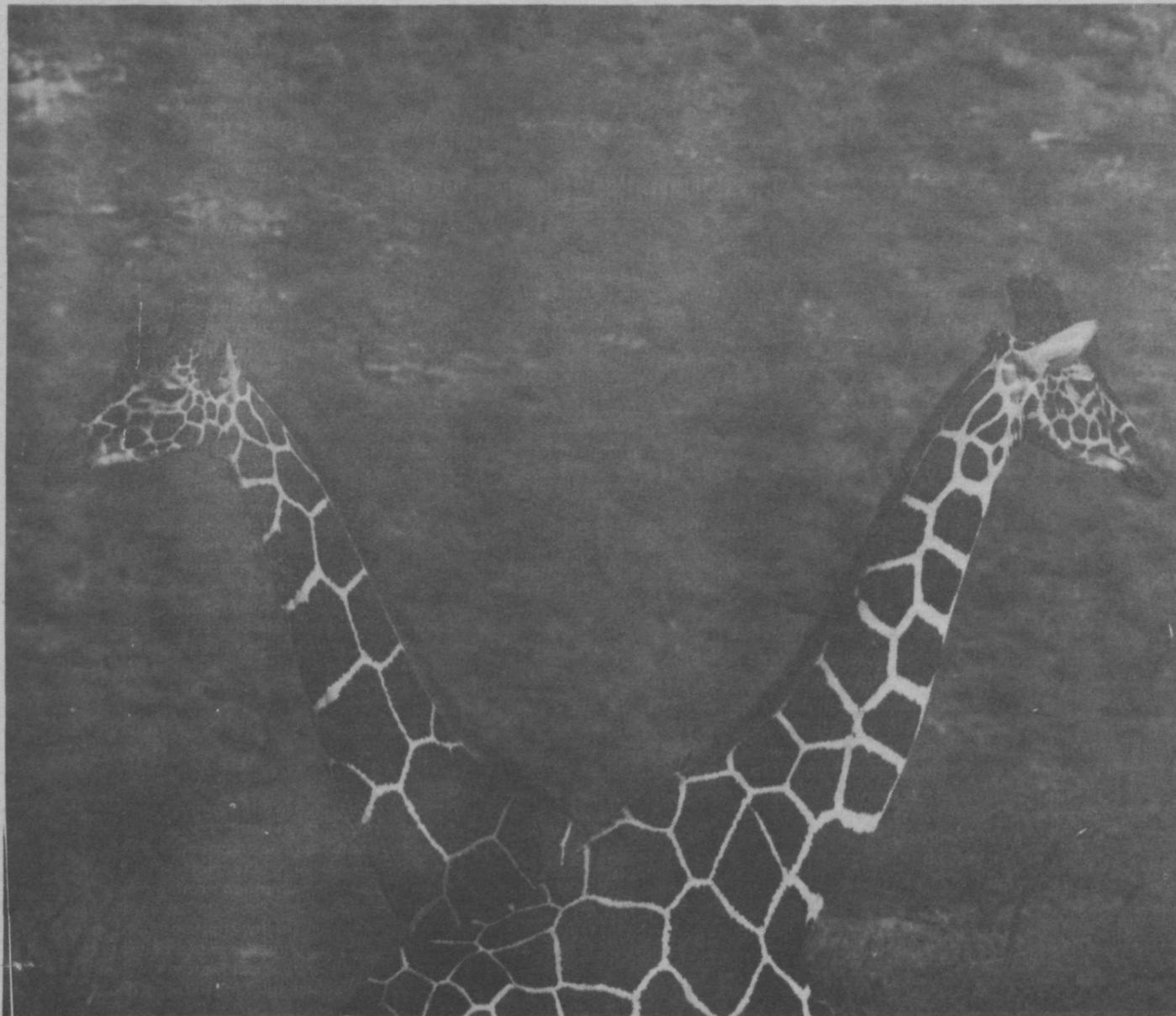
Laurie Roberts

PRODUCTION

Cheryl Seland

Networking Deadlines

September 10 (September 19 issue)
September 24 (October 3 issue)
October 8 (October 17 issue)
October 22 (October 31 issue)
November 5 (November 14 issue)
November 26 (December 5 issue)
December 9 (December 19 issue)



Honorable Mention from the 1985 Networking photo contest went to Robert Young, College of Agriculture and Life Sciences, in the fauna-color category for this photo of two giraffes.