

Cornell CHRONICLE

Volume 18 Number 2

September 4, 1986

Seznec selected to direct libraries

Alain Seznec, former dean of the College of Arts and Sciences and a professor of French, has been nominated as the new director of Cornell's libraries.

"Alain Seznec is a distinguished scholar and educator and an outstanding academic administrator," said Provost Robert Barker, who directed the nationwide search for a new librarian. "He was unanimously recommended by the search committee to lead the Cornell libraries during a critical period in their development."

Seznec will oversee 115 professional librarians and 285 support staff in Cornell's 15-library system, which, with its 5 million volumes, is considered one of the top research libraries in the nation.

Seznec's five-year appointment is expected to be confirmed by the Executive Committee of Cornell's Board of Trustees during its Sept. 4 meeting in New York City. He will assume his new post Nov. 5.

"The well-being of the library is crucial to the well-being of the university," Seznec said. "Cornell has one of the great university libraries. Space limitations and advances in technology will challenge us as we work to maintain and enhance our resources."

Noting that he is an educator, not a professional librarian, Seznec said, "This is an unconventional appointment and I have a lot to learn about how a library functions. One advantage is that I might be able to see things that others have not seen before, and I have a good relationship with the faculty and all of the deans."

"We did not set out to choose an academic administrator instead of a professional librarian," Barker explained. "We selected the person best suited to our current needs." A nine-member committee of faculty, librarians, and administrators from among more than 50 candidates.

"Administrative experience in a large research library would be an obvious asset in any candidate for the position, but in the volatile world of modern librarianship and information management, the search committee believed that such experience should not be an absolute requirement," said Vice Provost Barry B. Adams, committee co-chairman.

"The committee was searching for a person of vision," said Vivienne Shue, an associate professor of government. "Dean Seznec seems able to balance the desire to stay current technologically with a hard-headed step-by-step assessment of enduring and present needs."

Seznec completed an eight-year tenure as arts and sciences dean in June. He is credited with helping to improve the college's budget, facilities, and hiring of women faculty. He was planning to spend the 1986-87 year traveling, writing, and reading while on sabbatical.

"I had a lot planned that I'll have to give up or alter," Seznec said. "But when you're asked by your colleagues to accept a position of this



Alain Seznec, who served eight years as dean of the College of Arts and Sciences, has been nominated to be university librarian.

significance, it's hard to say no."

Seznec, 56, joined Cornell's Department of Romance Studies in 1958 after five years as an instructor at Harvard University. He spent five years as associate dean of arts and sciences and in 1967 won the university's Clark Distin-

guished Teaching Award. He is an expert in 17th century French literature.

Seznec succeeds Louis E. Martin, who left the libraries post in 1985, and J. Gormly Miller, a former libraries director who served as acting librarian during the past year.

— Mark Eyerly

CU will join in earthquake engineering research

Protecting human life and man-made structures from earthquakes is the object of a five-year, \$50 million study at Cornell and Columbia universities, the State University of New York at Buffalo, and Columbia's Lamont-Doherty Geological Observatory.

Cornell scientists will study earthquake hazards, particularly in the eastern United States and conduct experimental projects on the behavior of concrete and steel structures, soil dynamics, and "lifelines," the critical systems for transportation, telecommunications, and water and gas pipelines, says Peter Gergely, chairman of the Department of Structural Engineering.

Gergely is one of five principal investigators in the new Earthquake Engineering Research Center, which will be funded by the federal government and the State of New York.

The National Science Foundation announced in mid-August that \$5 million a year for five years will be allocated to the New York-based center. Matching funding for the same five-year period is expected from the New York State Urban Development Corp. Cornell will provide additional support to the program here.

Other institutions involved in the program include City College of New York, Lehigh and Princeton universities, and Rensselaer Polytechnic Institute.

The program is the federal government's largest concentrated effort ever in preventing loss of life and property from earthquakes. Educational institutions in California had also sought the earthquake program. Here at Cornell, earthquake engineering has been a focus of experimental studies for two decades, says Gergely.

In the program's first year, Cornell expects to spend about \$500,000 for laboratory equipment and improvements. Another \$750,000 to \$1 million is expected to be allocated by the center the first year for research at Cornell.

Several more researchers and technicians will be added to the staff of the Department of Structural Engineering and six to eight more graduate students will take part in earthquake engineering research, Gergely says.

The earthquake engineering program of the center will cover seismology (the study of earthquakes and related phenomena); experiments, analysis, and design; education; and technology-transfer. Two main areas of concentration will be lifelines and structures, including buildings, bridges, dams, and tunnels.

Cornell's national supercomputer center and

2 THEATRE CORNELL

opens with a
multi-media collage



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Rosecrance
on the
South African
economy

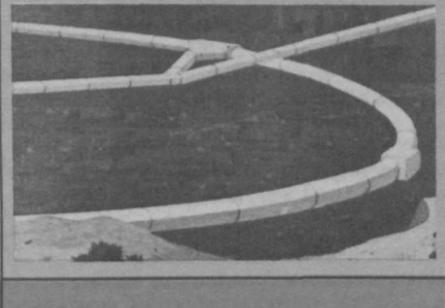
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Cotton
meets
Aquino



New labs at CHESS

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Guest scholars plan to lecture

Biologist Sir Richard Southwood, British legal scholar Geoffrey Marshall and French philosopher Jacques Derrida will visit Cornell during the month of September and Classicist Sir Kenneth Dover will visit in October as Andrew D. White Professors-at-Large. All four will give free public lectures, take part in classes and seminars, and hold office hours.

Southwood will be on campus Sept. 5 to 28 and will hold office hours in 6142 Comstock Hall, 255-4018, and will lecture on:

"Scientific Proof and Public Concern in Environmental Decisions," Sept. 9 at 4:30 p.m. in Hollis E. Cornell Auditorium of Goldwin Smith Hall;

"Patterns and Process in Natural Communities," Sept. 10 at 4:30 p.m. in Morison Room, Corson-Mudd Hall;

"Insect/Plant Relationships," Sept. 15 at 4 p.m., Morison Room.

Marshall, a fellow of Queen's College, Oxford, will visit Cornell Sept. 10 to 24.

An authority on constitutional theory, Marshall will give a public lecture entitled "What are Judges For? The Judicial Role in Europe and America," Sept. 15 at 4 p.m., Moot Court Room, Myron Taylor Hall.

Marshall will hold office hours in Myron Taylor Hall. For appointments, call Robert S. Summers, 255-4975.

Derrida will be on campus Sept. 15 to 21 and will give a two-part lecture, "How to Avoid Speaking," Sept. 18 and 19 at 4 p.m. in 120 Ives Hall. He will hold office hours in 291 Goldwin Smith Hall. For appointments, call 255-4264.

During his October stay, Dover will deliver a lecture on "Master and Slave in Old Comedy," Oct. 22 at 4:30 p.m. in Kaufmann Auditorium, and "Forgiveness in Greek Popular Morality," Oct. 29 at 4:30 p.m., also in Kaufmann Auditorium.

He will hold office hours in 120-A Goldwin Smith Hall. For appointments, call 255-3354.

Briefs

■ **Mellon fellows arrive:** Eight postdoctoral teaching fellows in the humanities are at Cornell this fall under the sponsorship of the Andrew W. Mellon Foundation. Five new fellows selected by the Humanities Council to begin two-year appointments this fall are: **Amitai F. Avi-Ram**, a specialist in poetics whose scholarly interests include literary theory, women's poetry and gay literature, in English; **Dorothy M. Figueira**, whose research interest is Sanskrit texts and their Western adaptations, in comparative literature; **Ann Grodzins Gold**, whose dissertation is an ethnographic study of Indian villagers' pilgrimage beliefs and practices, in South Asian studies; **Marilyn Migiel**, whose research interests are in Italian Renaissance literature and art, Dante and Medieval Italian lyric poetry, in Romance studies; and **Elliott R. Wolfson**, whose primary research interest is Jewish mysticism from the mystical literature of the Talmudic period to the Hasidic texts of the 18th and 19th centuries, in Near Eastern studies.

■ **Museum receives grants:** The Herbert F. Johnson Museum of Art has received a \$12,000 grant from the New York State Council on the Arts for an exhibition of works in progress by Bryan Hunt, an internationally-renowned sculptor, and a \$8,800 grant for an exhibition of the work of Steven Barbash, a professor of art at SUNY Cortland. The latter will feature large-scale landscape drawings depicting scenes in and around Cortland and etchings from the artists' "Woman and the Turtle" series.

■ **Olin Library Research Seminars:** Olin Library Reference Department is offering a series of general research seminars and government documents seminars for faculty and graduate students covering Olin's Union Card Catalogs, COMPASS (Computer Assisted Search Service), subject search strategy, reference materials and interlibrary loans. Seminars are scheduled for Sept. 6, 10 a.m. to noon; Sept. 22, 9 a.m. to 11 a.m.; Oct. 7, 7 p.m. to 9 p.m.; Oct. 24, 1 p.m. to 3 p.m.; Nov. 13, 11 a.m. to 1 p.m.

Government documents seminars will concentrate on the organization, use and location of U.S. government publications at Cornell. These seminars are scheduled for Sept. 13, 10 a.m. to noon; Sept. 29, 9 a.m. to 11 a.m.; Oct. 8, 7 p.m. to 9 p.m.; and Oct. 31, 1 p.m. to 3 p.m.

All seminars will take place in Olin Library, room 701. For more information and sign-up, call 255-3319 or stop by the Reference Department.

Construction problems hotline: 255-4394

If construction work is interfering with the space where you usually park your car and you are confused about where to park on campus, call 255-4394.

A coordinator has been appointed in each college and major research unit to identify parking problems and provide up-to-date information, and the appropriate coordinator can be identified by first calling the construction problems hotline.

Karmarkar to lecture on new algorithm

Narendra Karmarkar, the AT&T Bell Laboratories scientist whose method of mathematical programming permits rapid solution of a wide variety of important problems in industry, will lecture here Sept. 8.

Karmarkar's public lecture, "The New Polynomial-Time Linear Programming Algorithm," is scheduled for 4:30 p.m. in Hollis Cornell Auditorium in Goldwin Smith Hall.

Karmarkar will also give two technical lectures Sept. 10 and Sept. 12, at 11:15 a.m., in 165 Olin Hall.

First announced in 1984, the Karmarkar algorithm is now being used by AT&T planners to design call-routing systems that make better use of facilities and enhance customer service while improving revenues for the company. It enabled one network design problem that had defied solution by existing methods because of its more than 60,000 variables to be solved in only a small fraction of an hour of computer time.

AT&T engineers say the Karmarkar algorithm may help solve a network design problem

involving more than 100 long-distance switching offices and 1,233,000 variables. Other potential applications abound, including scheduling airline crews and fuel loads.

Among those attending the technical lectures will be graduate students in operations research and industrial engineering, computer science and applied mathematics. The Cornell students are developing computer codes based on the Karmarkar algorithm and will compare its problem-solving speed and accuracy with other programming methods. Similar tests of the Karmarkar algorithm are under way at Stanford University and the University of California at Berkeley.

Karmarkar is the first speaker in a year-long distinguished lecturer series, part of a Special Year in Discrete Optimization sponsored by the Center for Applied Mathematics and the School of Operations Research and Industrial Engineering.



Narendra Karmarkar

Hsu to perform works by Marais

John Hsu, viola da gamba, and Catherine Liddell, theorbo, will play a program of works by Marin Marais and Robert de Visee Sept. 13, at 8:15 p.m. in Barnes Hall auditorium.

This is the first of a pair of concerts that Hsu will play this fall focusing on the exquisite music for viola da gamba solo composed by the greatest French composers, Marin Marais and Antoine Forqueray, during the golden age of the instrument's history.

The second concert, devoted to the music of Antoine Forqueray, will take place Oct. 18.

Marais, the most prolific composer, performer, and teacher of solo music for the viola da gamba, was a prominent and influential musician in the court of Louis XIV. His 598 pieces, published in five books, constitute the most significant repertoire for the viola da gamba.

Hsu is now preparing the first modern edition of the complete instrumental works of Marais for Broude Brothers Ltd. of New York. During 1973-76, he recorded a series of five discs of Marais's pieces. One of the few viola da gamba virtuosos today and an authority on Marais and French Baroque music, he has performed extensively in the USA and Europe. Hsu is the Old Dominion Foundation Professor of Humanities and Music, and director of the Aston Magna Festival, a summer festival of 17th and 18th century music performed on period instruments.

Theatre Cornell opens season with high-tech social comment

Theatre Cornell will open its 1986-87 season with an avant-garde production, "Social Amnesia," performed by the Impossible Theatre of Baltimore.

This multi-media collage of performance, electronic sound, imagery and literature delivers a high-tech commentary on the decline of social values.

"Social Amnesia" is based on two works of history and social criticism: "A People's History of the United States," by Howard Zinn and "Social Amnesia" by Russell Jacoby.

The cast is joined by well-known Washington-based electronics composer Bob Boilen and writer/director John Schneider of Milwaukee's Theatre X.

Performances will be given Sept. 18, 19, and 20 at 8 p.m. in the Willard Straight Theatre.

Bertolt Brecht's provocative epic, "Mother Courage and her Children," will be performed in November, under the direction of David Feldshuh, artistic director of Theatre Cornell.

This drama of a cynical, tough-minded woman struggling valiantly in a world of violence stars guest actress Penelope Allen, who has appeared extensively in regional theatre, on Broadway and in films.

"Mother Courage" will be performed Nov. 6-8, 14, 15, 21, and 22 at 8 p.m. and on Nov. 9, 16, and 23 at 2:30 p.m.

Shakespeare's "Two Gentlemen of Verona," the second of the Master Director-in-Residence series, will be performed Feb. 19-21, 27, 28, March 6 and 7, at 8 p.m. and on Feb. 22, March 1 and 8 at 2:30 p.m.

Robert Schenckan's "Final Passages," a gritty, realistic tale of a young man's voyage aboard a merchant ship from England to Boston in 1878, will be directed by Stephen Cole and will run April 9-11, 16-18, 23-25 at 8 p.m. and April 12 at 2:30 p.m.

Theatre Cornell's subscription series closes with a modern dance performance May 7-9 at 8 p.m. and May 10 at 2:30 p.m.

Season subscriptions are available now. Prices range from \$12 to \$20 for the five Willard Straight productions. For ticket information, call 255-5165.

In the Drummond Theatre this year, Theatre Cornell will set its feet dancing with its first musical "Merrily We Roll Along," directed by William Pomerantz. With music by Stephen Sondheim and book by George Furth, this tuneful trip throughout the lives of three close friends runs Oct. 2-4, 16-18, 23-25 at 8 p.m. and Oct. 5 and 19 at 2:30 p.m.

"A Christmas Carol," by Charles Dickens, returns for a second season to Theatre Cornell, under the direction of David Feldshuh. The holiday play will run Nov. 20-22 and Dec. 2-6 at 8 p.m. and Nov. 23 and 6 at 2:30 p.m.

"The Wedding," by Anton Chekov, is an acting project directed by Yuri Belov. This lively one-act farce will be presented in three very different acting styles. The show will run March 5-7, 10-14 at 8 p.m. and March 8 at 2:30 p.m.

Individual tickets for the Drummond Shows may be purchased at \$3 each at Willard Straight box office. For more information, call 255-5165.

Notable

Will Burbank, co-founder of Tompkins County Ecology Action and former communications coordinator for Tompkins County Cooperative Extension, has been named coordinator of the Eco-Justice Project, succeeding **Rev. William E. Gibson**, who has been named coordinator of Eco-Justice's Human Prospect Program. The Eco-Justice Project is a network of individuals and institutions concerned with the ecology of the planet and the well-being of all its people and is affiliated with the university's Center for Religion, Ethics and Social Policy.

George C. Eickwort, professor of entomology, has been awarded the Entomological Society of America (Eastern branch) Distinguished Achievement Award in Teaching for the quality of his teaching of basic courses in entomology.

Robert B. Jones, a member of the faculty in the College of Arts and Sciences since 1955, has been elected professor emeritus of linguistics, effective July 1, 1986. An expert in Southeast Asian languages, he is the co-author of a Japanese-English medical dictionary; Kanji Abbreviations, Variants and Equivalents; The Burmese Writing System; Introduction to Spoken Vietnamese; Karen Linguistic Studies; Thai Cultural Reader (volumes 1 and 2); and Introduction to Thai Literature. He was instrumental in developing the Southeast Asian Studies Program at Cornell.

Sharon McCarthy, a doctoral candidate and the first Fulbright scholarship winner from the Johnson Graduate School of Management, left for the Netherlands Sept. 2 to study worker attitudes toward participation in decision-making. McCarthy, who has researched the motivation of American workers who join qual-

ity circles, will compare her findings with studies of Dutch workers, who have a long-standing tradition, reinforced by law, of participatory democracy. She will be based at the University of Leiden.



Peter Katzenstein, professor of government, was awarded the Woodrow Wilson Foundation Book Award at the annual conference of the American Political Science Association for the best book in the field of political science published in 1985 on government, politics and international affairs. Katzenstein's book, "Small States in World Markets: Industrial Policy in Europe," was published by Cornell University Press in 1985.



Theodore Lowi, professor of government, was awarded the Harold Lasswell Award for outstanding scholarship on public policy and the Richard Neustadt Prize for the best book on the U.S.

presidency by the American Political Science Association during its recent annual conference.

Thomas Bjorkman and **Christina W. Verucci**, graduate students in plant physiology working in Carl Leopold's lab at the Boyce Thompson Institute, have received Knudson Awards this year.

Obituaries

Funeral services were held Aug. 27 at the First Presbyterian Church for psychiatrist Dr. C. Douglas Darling, director of Cornell University's Mental Health Division from 1946 until his retirement in 1969.

Darling died Aug. 23, at Tompkins Community Hospital after a long illness. He was 81.

A pioneer in studies of suicidal tendencies among college students, Darling was university psychiatrist at Cornell's Ithaca campus from 1938, when he joined the faculty, until his retirement.

Named professor of clinical medicine, emeritus, at the time of his retirement, Darling was appointed assistant professor in the Department of Hygiene (1939), associate professor of clinical and preventive medicine (1945) and professor in 1948.

He is survived by his wife, Ruth Walton Darling of Cayuga Heights; a daughter, Barbara Walton Darling of Middlebury, Vt. and a sister, Virginia Darling Cockrell of Fremont, Ohio. A son, Charles Douglas Darling Jr., died in 1958.

Memorial contributions may be made to Cornell University for the establishment of a student loan fund. Address communications to the Office of Financial Aid, 203 Day Hall, Ithaca, N.Y. 14853.

Cornell CHRONICLE

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CIRCULATION MANAGER: Joanne Hanavan

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

Sanctions could topple Botha, says Rosecrance

South Africa's economy would go into a depression if the United States, Europe, and Japan stopped importing South African gold and diamonds and if Western banks called in their loans, says Richard Rosecrance, government professor and a former member of the U.S. State Department's Policy Planning Council.

A depression would cause swift political change that, if followed by economic aid to the newly structured nation, would benefit South Africa's domestic and foreign business interests as well as its majority population, he says.

Rosecrance contends that economic tools of statecraft, such as the proposed multilateral trade sanctions against South Africa, are replacing unilateral military might as the leading influence on the world stage.

In today's world, "waving your wallet can be more effective than flexing your muscles," says Rosecrance, author of the book "The Rise of the Trading State: Commerce and Conquest in the Modern World."

It is the growing economic power of trading states, not the military force of territorial states, that will influence developments in South Africa, Central America, and throughout the Third World, he predicts.

Because the United States and Soviet Union are balanced in a stalemated game of territorial chess, force is a futile tool, he explains. Military conflict no longer results in conquered territory, the spread of an ideology, and enhanced economic vitality for the victor. Instead, Rosecrance says, there is immense destruction and exhausted economies on all sides before a return to the pre-war status quo.

As a result, many nations are more concerned about expanding through new trading markets, not territorial conquest. Countries are looking to improve their position in absolute terms instead of in comparison to others. Alliances are beginning to center around open trade and economic interdependence and less around military strength and ideology.

Examples include China's opening to the West and Egypt's treaty with Israel. The West's economic response to the 1973 oil crisis — reducing demand — "succeeded beyond our wildest dreams," Rosecrance says.

Even though more than 100 new states have been formed since 1945, "there have been notably few territorial conflicts because Third World nations must choose between fighting and trading; they cannot afford to do both."

Japan, despite its dependence on resources and markets provided by the rest of the world, is becoming the globe's leading economic power and is the nation others are trying to emulate.

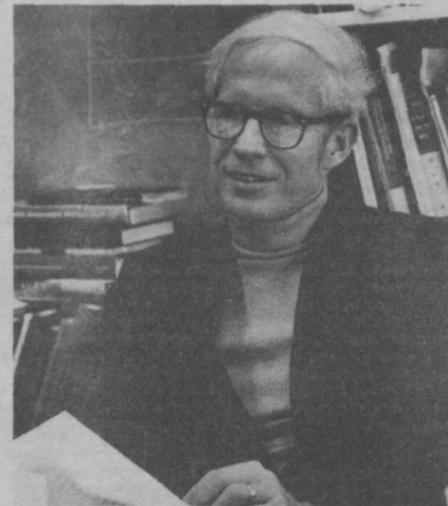
"The world is at a crossroads," Rosecrance suggests. "A worldwide depression or debt crisis could trigger, as it did in the 1930s, a resurgence of military expansion. But such an outcome is avoidable."

"The economy is showing resilience in restructuring Third World debt, developed nations will not relegate the Third World to perpetual poverty because they need those nations as markets, and the West enjoys a fundamental coherence that supports a military strength equal to that of the Soviets," he says.

The key for the United States is to maintain the superpower balance without becoming a second-class economy that produces only military equipment and purchases everything else from other nations.

As for the Soviet Union, "Can a communist country permit international supply and demand to influence or even determine its economic choices?" he asks.

"China has begun allowing supply and demand to control production of consumer goods. Can the Soviets do much less and still maintain their position as a great economic as well as military power? The answer remains unclear, but the stimulus to change is there."



Richard Rosecrance

Rosecrance, the Walter S. Carpenter Jr. Professor of International and Comparative Politics, is in Washington, D.C. as a fellow at the Woodrow Wilson Center of the Smithsonian Institution and as a professor with the Cornell-Washington Program.

— Mark Eyerly

Earthquake damage can be prevented, say engineers

Cornell engineers recommend that cities conduct careful studies of their infrastructures to anticipate damage that could be caused by earthquakes.

A simple screening procedure could pinpoint older buildings likely to collapse during earthquakes, says Peter Gergely, chairman of the Department of Structural Engineering.

Gergely recommends that hospitals, fire stations, and other critical life safety facilities be reinforced to withstand the forces of earthquakes that will come, sooner or later, almost anywhere in the United States.

Gergely and Richard White, professor of structural engineering, reported on a three-year U.S.-Japan study of the seismic performance of existing buildings at the third National Conference on Earthquake Engineering in Charleston, N.C. in August.

Thomas O'Rourke, professor of structural engineering, reported to the conference findings of a reexamination of the 1906 earthquake in San Francisco and the fire it caused.

O'Rourke recommended careful study and strengthening of water systems in quake-prone cities. After the San Francisco earthquake, thousands of water lines broke, emptying reservoirs and keeping firemen from controlling blazes that destroyed 490 city blocks.

Risk to cities

"When a catastrophic earthquake comes, as happens on the average of about every 100 years in a given area of California and roughly every 500 years in areas of the East, more loss of life and property occurs from inoperative critical facilities than from the quake itself. The injuries, fire and panic cannot be handled," Gergely said.

The Cornell engineer urged that cities make comprehensive surveys of damage-prone buildings and at the least strengthen fire and police stations and hospitals to withstand the impact of earthquakes.

He recommends that cities begin with a quick screening to classify structures and determine those that are clearly unsafe. Quick screening depends on engineering judgement and visual inspection, rather than a review of design drawings, Gergely said, adding, "very little calculation is needed."

A more involved analysis is needed for more important or unusual buildings, Gergely noted. He estimates that one day's worth of calculations would be needed for most buildings. Those with complex geometries or built upon weak soil conditions would require several days' study involving a computer to simulate how they would vibrate in an earthquake.

Water lines essential

Probable points of earthquake damage to underground water lines can be predicted from geological studies and improvements such as flexible couplings and redundant lines can limit water loss during emergencies, said O'Rourke, a specialist in earthquake damage to pipelines.

O'Rourke has studied maps of San Francisco from 1853, before the growing city filled in marshy areas and its waterfront to make room for streets. He has compared the older maps with hundred of photographs and historical documents that locate major water line breaks from the 1906 earthquake.

Soil liquefaction caused the breaks in the San Francisco water lines earlier this century, O'Rourke noted. Seemingly solid ground failed to hold together after the earthquake increased the pressure of groundwater and the earth moved like liquid. Most water line breaks occurred in or near filled-in marshes and bays.

Computer model

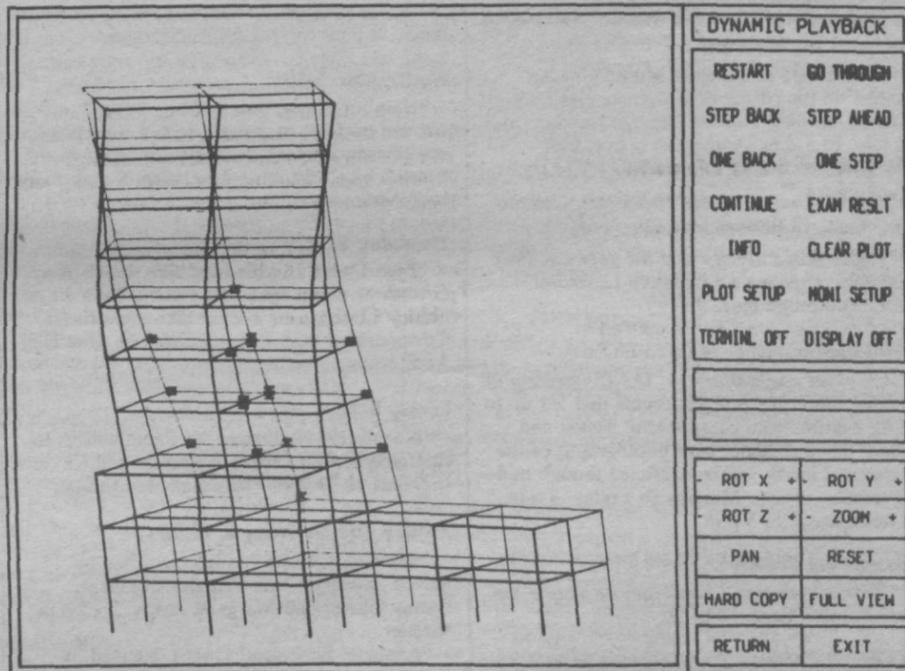
O'Rourke has also developed a computer modeling program to simulate water system flow and loss and has checked the simulation with actual tests conducted by the San Francisco Fire Department.

That city created an array of water mains, cisterns and fireboat pump stations after the 1906 quake, and that auxiliary water supply system, along with the main municipal system, still rely almost entirely on cast-iron pipe.

Pipes of this sort are typical of many mid-western and eastern cities "where earthquake damage is an important, though relatively

unstudied, aspect of disaster relief planning," O'Rourke said.

Special valves installed at strategic sites can isolate damage to brittle lines and limit water loss," O'Rourke continued. Flexible joints are less apt to snap or pull loose when the ground moves. And redundant lines, routed through less hazardous areas, can bypass the damage.



A 20-story steel-framed building is deformed by exaggerated effects of an earthquake in this computer simulation by engineering graduate student Jerome Hajjar.

Thousands expected at Employee Day

More than 2,000 Cornell University employees, including two busloads of people from the New York Hospital-Cornell University Medical Center, are expected to attend the 12th annual Employee Day Sept. 20, said George Peter, director of laboratory operations at the National Astronomy and Ionosphere Center and the employee-elected member of Cornell's Board of Trustees.

On tap for the celebration is a chicken barbecue in Barton Hall following the Cornell-Princeton football game. Music will be provided at the barbecue by the Big Red Band and "Nothing But Treble," a vocal group.

This year, the planning committee is seeking employee talent to provide additional entertainment. For information, or to volunteer, call Diane Crossett at 255-3937.

Tickets for the football game are being sold at the reduced price of \$2 until Sept. 12; bar-

becue tickets are also \$2. Each employee may purchase up to four tickets for each event.

Souvenirs will be distributed at the barbecue to children under 12 and Cornell athletic posters will be given away, according to Peter.

Displays featuring employees at work will line Barton Hall. Barton Hall will be open from 1:30 p.m. to 3:30 p.m. so that other visitors may view the exhibits.

More than 60 volunteers are working on this year's employee day program, according to Peter. The celebration "helps to show that the university appreciates the individual employee and his or her contribution to Cornell," he said.

Employee day is sponsored by the employee members of the University Assembly, Employee Assembly, Department of Physical Education and Athletics, University Personnel Services, and the employee-elected trustee.

Bairds donate Sage Court garden

Bright yellow mums, pink geraniums, and newly planted trees and shrubs surround the north entrance of Sage Chapel, dedicated this month as the Kerstin Thorin Baird Garden Courtyard.

The dedication, held at the chapel Aug. 9, was the culmination of a one year renovation, funded by Thomas J. Baird and the late Kerstin Thorin Baird.

The Baird gift provided new walkways, numerous plantings, and the addition of lights, benches, a sculptured urn, a bronze plaque, and a new brick/stone courtyard floor. The donation also established an endowment fund to maintain the site.

Mrs. Baird, born in Stockholm, was a member of the women's physical education department from 1933 to 1965, and initiated the first international folk dance program at Cornell. She was to dedicate the courtyard with her husband, but died in March.

Mr. Baird, during his 20 year tenure at Cornell, initiated courses in industrial design and freehand drawing in the College of Engineering. He retired professor emeritus in 1967.

As long-time supporters of Cornell and the cultural arts, the Bairds established the Thomas Baird Visiting Critic Fund in the College of Architecture, Art, and Planning and the Thomas and Kerstin Baird Concert Fund in the Department of Music.

CALENDAR

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

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

All deadlines will be strictly enforced.

DANCE

Cornell Folkdancers

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

EXHIBITS

Johnson Art Museum

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

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

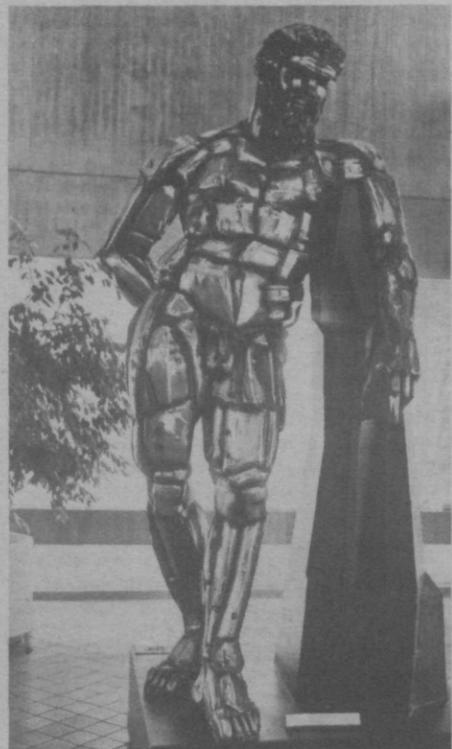
"Frank Lloyd Wright and the Johnson Wax Buildings; Creating a Corporate Cathedral" Sept. 26 through Nov. 9.

Olin Library

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

Tjaden Hall Gallery

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



FILMS

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

Friday 9/5

"Out of Africa" (1985), directed by Sydney Pollack, with Meryl Streep, Robert Redford, Klaus Maria Brandauer. 7:15 p.m. *Statler.

"The Shooting Party" (1984), directed by Alan Bridges, with Edward Fox, James Mason and Cheryl Campbell. 7:30 p.m. *Uris Hall Auditorium.

"Stop Making Sense" (1984), directed by Jonathan Demme, with the Talking Heads. 10:30 p.m. *Statler.

Saturday 9/6

"Out of Africa." 8 p.m. *Statler.

"The Shooting Party." 9:45 p.m. *Uris Hall Auditorium.

"Stop Making Sense." Midnight. *Statler.

Sunday 9/7

"Public Enemy" (1931), directed by William Wellman, with James Cagney and Jean Harlow;

"Footlight Parade" (1933), directed by Lloyd Bacon, with James Cagney and Joan Blondell. 8 p.m. *Uris Hall Auditorium.

Monday 9/8

"Ikiru" (1952), directed by Akira Kurosawa, with Takashi Shimura. 8 p.m. *Uris Hall Auditorium.

Tuesday 9/9

"Koyannisuatsi" (1983), directed by Godfrey Reggio, music by Philip Glass. Shown with: "Mass for the Dakota Sioux" directed by Bruce Baillie. 8 p.m. *Uris Hall Auditorium.

Wednesday 9/10

"Next Stop, Greenwich Village" (1967), directed by Paul Mazursky, with Lenny Baker and Shelley Winters. Shown with: "Beat," directed by Christopher MacLaine. 8 p.m. *Uris Hall Auditorium.

Thursday 9/11

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

Friday 9/12

"Kaos" (1984), directed by Paolo and Vittorio Taviani, with Omero Antonutti and Ciccio Ingrassia. 7:15 p.m. *Uris Hall Auditorium.

Friday and Saturday 9/12, 9/13

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

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

Saturday 9/13

"Kaos." 9:45 p.m. *Uris Hall Auditorium.

Sunday 9/14

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

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

SEPTEMBER						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

LECTURES

Tuesday 9/9

"Scientific Proof and Public Concern in Environmental Decisions," Sir Richard Southwood, Linacre Professor of Zoology, Oxford University, A.D. White Professor-at-Large. 4:30 p.m. Hollis Cornell Auditorium, Goldwin Smith Hall.



MUSIC

Fun in the Sun

Sept. 6, 2 p.m. Arts Quad. Marching Band.

Bound for Glory

Sept. 7, 8:30, 9:30, and 10:30 p.m. Anabel Taylor Commons Coffeehouse. Bound for Glory broadcast live on FM93.

Folk Guitar Lessons

The Willard Straight Hall Board presents Phil Shapiro's group folk guitar lessons. Learn to play acoustic guitar. Eight one-hour lessons, Monday nights beginning Sept. 8. Separate sessions for beginners and intermediates. Cost is \$25, payable at first lesson. For more information, call Phil Shapiro at 844-4535.

RELIGION

Sage Chapel

Frederick H. Borsch, dena of the chapel at Princeton University, will preach at Sage Chapel Sept. 7 at 11 a.m.

Borsch, who holds degrees from Princeton, General Theological Seminary, and Birmingham University, is an ordained priest in the Episcopal Church. He is the author of "The Son of Man in Myth and History," "God's Parable," "Coming Together in the Spirit," and "Power in Weakness."

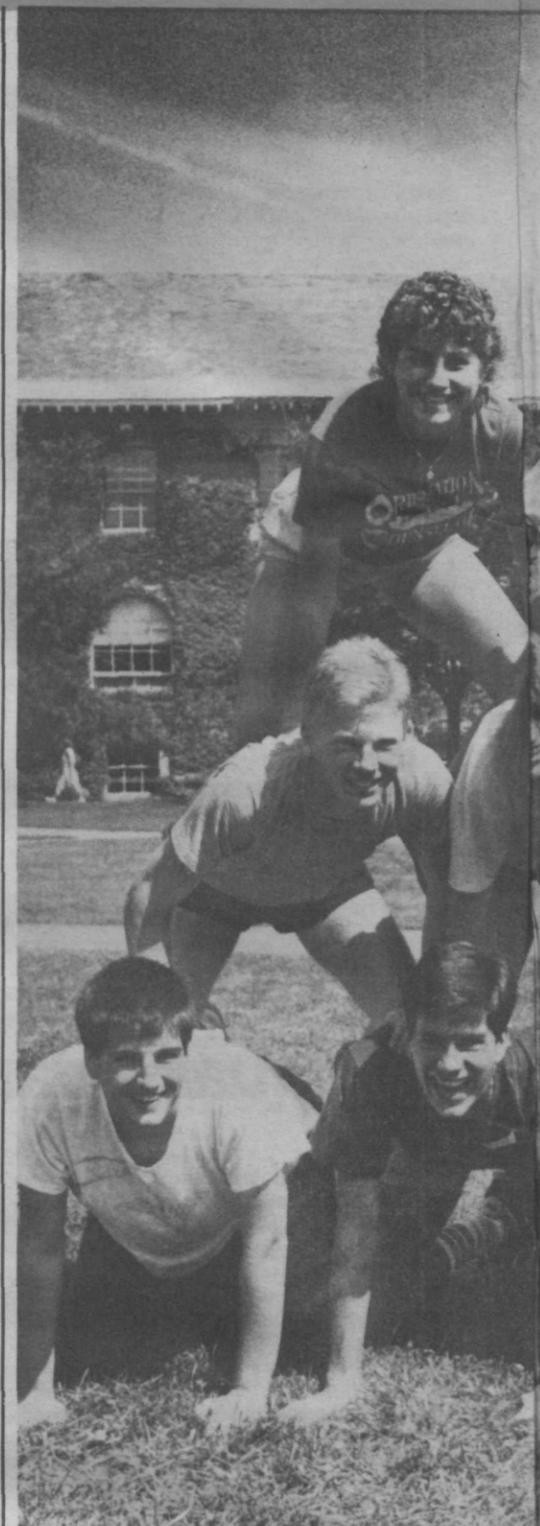
Catholic

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

Sacrament of Reconciliation by appointment, 255-4228, G-22, Anabel Taylor Hall.

Christian Science

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



"Off-beat Olympics" on the Arts Quad saw freshmen

Episcopal (Anglican)

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

Great Commission Students

Sunday worship service: Every Sunday, 10:30 a.m., 314 Noyes Center. An Evangelical Christian student organization.

Bible Discussion Group: Every Wednesday, 7:30 p.m., 310 Noyes Center. Sponsored by Evangelical Christian student organization.

Jewish

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

Conservative: Every Friday, 5:30 p.m., Anabel Taylor Founders Room; Every Saturday, 10 a.m. Anabel Taylor Founders Room.

Orthodox: Every Friday, 7 p.m., Young Israel, 106 West Ave.; Every Saturday, 9:15 a.m., Anabel Taylor Edwards Room.

Korean Church

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

Muslim

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

Protestant

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

Religious Events

Mahesh Chavda, "Speaking the word of truth and demonstrating the power of God's love," Sept. 10, 7:30 p.m. Goldwin Smith Kaufmann Auditorium.



...ing atop one another in races to build human pyramids.

THEATRE

Cornell Savoyards

Savoyards needs set and costume designers and rehearsal pianist for fall production of "Yeomen of the Guard." Also needed are volunteer technical help (set construction, props, costumes). No experience necessary. Call 273-0570.



MISC

Intramural Soccer

Deadline for entries is Sept. 8 at 4 p.m. in the Intramural Office, Helen Newman. Minimum of 12 to enter. Playing times are Monday through Thursday at 7 p.m. Please specify your preferred day of play, 1st, 2nd, 3rd choice. No choice of times. Fee of \$10 per team due with roster. Checks only, payable to "Cornell University."

Intramural Golf

Deadline for entries is Sept. 11 at 4 p.m. in the Intramural Office, Helen Newman. Teams of two players. Any number of alternates, but only two from any organization may compete in the tournament. Play will be one to nine hole best ball stroke play round without handicap to be played Sept. 28 beginning at 11 a.m. All teams must register for a time by 1 p.m. You may not tee off until 11 a.m. If in doubt about playing conditions, call the Golf Shop, 255-3361 before 11 a.m. If tournament is cancelled, it will be held Oct. 5. Score cards must be turned in at the Pro Shop immediately after play. Charge of \$7 per person due with roster to enter. Checks only, payable to "Cornell University Golf Club." No refund after deadline.

Intramural Sailing

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

Experimental College Registration

Sign-up for Experimental College courses Sept. 8 and 9 in Willard Straight Hall's Memorial Room from 6 to 8 p.m., or pick-up a brochure at the following locations and register by mail: Noyes Center, Robert Purcell Union, Willard Straight Hall, Day Hall Information and Referral Center, and Tompkins County Library.

Extramural Classes

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

Mixed Bowling League

New teams, couples or individuals, are needed for Tuesday night Mixed Bowling League at 6:30 p.m. in Helen Newman Lanes. For further information contact Carole Cook, president, 564-9375 or Judy Lattin, secretary, 539-6191.

Tours of Olin Library

The Olin Reference Department is giving a tour of Olin Library for graduate students and faculty. The tour lasts 45 minutes and is scheduled for Sept. 4 at 10:15 a.m. Meet in the lobby of Olin Library. For more information, call 255-3319.

Tours of Uris Library

Tours of the Uris undergraduate library will be held Sept. 4 and 5. Meet at the Uris Circulation Desk at 2:30 p.m. Sept. 4 or 11:15 a.m. Sept. 5. Handicapped students needing special tours should call 255-2339.

Ithaca Rape Crisis

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

Alternatives Library

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

Emotions Anonymous

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

Alcoholics Anonymous

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

Personal Effectiveness Seminar

An eight-week personal development workshop to help develop self-awareness and self-confidence, take responsibility for your growth, build commitment, integrity, creativity, learn stress management for vitality, relaxation and peace of mind. Meets Thursdays from 7 to 10 p.m. from Sept. 18 to Nov. 13. For information contact instructor Let Davidson at 272-4131.

Making Relationships Work

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

Personal Growth Workshops

To register or for more information about the following workshops, stop by 103 Barnes Hall or call 255-3608. Free and confidential, and open to the Cornell community. Workshops begin the week of Sept. 8. Workshops: assertiveness; women, food and self-esteem; building self-esteem; building satisfying relationships; lesbian? bisexual? a support and discussion group for women (ongoing, open, meets Wednesdays from 7 to 9 p.m. in 103 Barnes); gay? bisexual? a support and discussion group for men (ongoing, open, meets Tuesdays from 4 to 6 p.m. in 314 Anabel Taylor. New student connections (sections for freshmen, transfers, grads).

SEMINARS

Agricultural Engineering

"Microbial Species Viability and Nutritional Status Assay by Biochemical Marker Measurement in Anaerobic Digesters," David C. White, director, Institute for Applied Microbiology, University of Tennessee and Oak Ridge National Laboratory, 9 a.m., Sept. 5., 205 Riley-Robb Hall.

Ecology and Systematics

"The latest news on the intertidal zone," Robert M. Paine, Department of Zoology, University of Washington, Seattle, 4:30 p.m., Sept. 8, Morison Room A106, Corson/Mudd Halls.

"Pattern and process in natural communities," Sir Richard Southwood, Linacre Professor of Zoology, Oxford University, 4:30 p.m., Sept. 10, Morison Room A106, Corson/Mudd Halls.

Entomology Club

"What the Comstocks had in mind — a brief historical sketch of Cornell and its entomology," E. H. Smith, professor emeritus, Department of Entomology, 4 p.m., Sept. 8, Morison Room A106, Corson/Mudd Halls.

Immunology

"Immunobiological Studies on Newborn Larvae of *Trichinella spiralis* in Rats," Ching Hua Wang, Department of Veterinary Microbiology, James A. Baker Institute of Animal Health, 12:15 p.m., Sept. 5, C-207 Schurman Hall.

Pharmacology

"Pharmacokinetics and tissue distribution of florfenicol in veal calves," Paul E. Adams, Department of Veterinary Physiology and Pharmacology, Ohio State, noon, Sept. 4, D101-L Schurman Hall.

Plant Biology

"Guard Cell Chloroplasts and their Role in Stomatal Opening," S. Gepstein, biology department, Technion, Haifa, Israel, 11:15 a.m., Sept. 5, 404 Plant Science Building.

Plant Pathology

"Pathogenic stability and variability in *Pyricularia oryzae*," Frances Latterell (USDA, Frederick), 4:30 to 5:30 p.m., Sept. 9, 404 Plant Science Building.

Pomology and Vegetable Crops

"Pepper bud abscission: Influence of plant growth regulators," Chris Wien, vegetable crops department, 4:30 p.m., Sept. 18, 404 Plant Science Building.

Statistics

"Estimation following a Robbins-Monro designed experiment," David Rupert, 4:30 p.m., Sept. 9, 111 Upson.

"Reconciling evidence in testing problems," George Casella, Biometrics Unit, 3:30 p.m., Sept. 10, 100 Caldwell Hall. Introduction begins 3 p.m., 250 Caldwell Hall.

Job Opportunities

September 4, 1986
Number 35
University Personnel Services
Cornell University
160 Day Hall
Ithaca, New York 14853-2801

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

Administrative and Professional

The minimum salaries listed are for recruitment purposes only.

RESEARCH SUPPORT SPECIALIST II (PT351) Agricultural Engineering
Design computer programs to collect data from monthly reports and retrieve it in cross tabulation form. Maintain records; compose contractual and statistical reports and papers.
Requirements: Bachelor's degree in math or computer science. Minimum 2 years experience in position requiring computer operation or statistical compilation. Send cover letter and resume to Cynthia Smithbower by September 12, 1986.

STAFF WRITER I (PC351) Agricultural Engineering
Develop publicity and mass media support for Small Business Energy Efficiency Program. Write reports, news stories and newsletters for program.
Requirements: Bachelor's degree in journalism, English literature, or Communication Arts. Two years experience in writing, news reporting or mass media. Send cover letter, resume, 2 writing samples or call in confidence to Esther L. Smith (607-255-6874).

ADMINISTRATIVE MANAGER I (PC354) Diagnostic Laboratory
Financial and Administrative responsibilities including budgeting, personnel, accounting, purchasing and accounts receivable; information systems development and management for financial reporting, operations automation and telecommunications; Physical Plant maintenance and planning.
Requirements: Bachelor's degree in finance or accounting. Experience in supervision. Coursework or experience in computer applications and systems development. Send cover letter, resume or call in confidence to Esther L. Smith.

RESEARCH SUPPORT SPECIALIST I (PT352) Biochemistry, Molecular & Cell Biology
Design, plan and conduct research on structure and assembly of avian retroviruses. Assist in training and supervision of new lab personnel in routine procedures, lab safety, etc. Maintain lab supplies, equipment and radioisotope records.
Requirements: MS plus two years experience or Bachelor's plus four years experience. Experience in cell culture and biochemistry of nucleic acids and proteins needed. Send cover letter and resume to Cynthia Smithbower.

SYSTEMS PROGRAMMER II (PT356) Theory Center
Provide 4.2/3BSD UNIX systems support for various Theory Center computers.
Requirements: B.S. in Computer Science or equivalent. 2-3 years experience with 4.2/3BSD UNIX. Experience with multiple machine architectures. Send cover letter and resume to Cynthia Smithbower.

TECHNICAL CONSULTANT II (PT359) Theory Center
Provide consulting services to researchers and users of Cornell Theory Center, including Advanced Computing Facility and Theorynet.
Requirements: B.S. or equivalent, with coursework in computing and related fields. 2-3 years of computer system and programming experience. Experience with UNIX systems and understanding of networking techniques and protocols helpful. Strong interpersonal, communication and organizational skills necessary. Send cover letter and resume to Cynthia Smithbower.

SYSTEMS PROGRAMMER II (PT355) Theory Center
Provide 4.2/3BSD UNIX systems support for various Theory Center computers. Provide technical advice and guidance to users and staff.
Requirements: B.S. in Computer Science. 3-5 years experience with 4.2/3BSD UNIX; experience with various machine architectures; demonstrated expertise in designing, developing, maintaining system software; strong interpersonal and communication skills. Hardware background desirable. Send cover letter and resume to Cynthia Smithbower.

SENIOR SYSTEMS PROGRAMMER (PT358) Theory Center
Design, implement, test, and document a comprehensive operating system for a parallel supercomputer. Function as an authority on state of the art parallel architectures.
Requirements: B.S. in computer science plus 3-5 years experience or equivalent in education and experience. Sound knowledge of operating systems, systems design, and software engineering. Experience working with 4.2/3BSD UNIX. Send cover letter and resume to Cynthia Smithbower.

SENIOR TECHNICAL CONSULTANT (PT3510) Theory Center
Coordinate education and training activities to aid researchers using Cornell Theory Center, including the Advanced Computing Facility and Theorynet. Plan workshops; prepare documentation and materials for users.
Requirements: M.S. or equivalent combination of education and experience. Excellent communication, interpersonal, and organiza-

tional skills. Experience with UNIX systems and massively parallel systems, such as the Intel iPSC. Experience in setting up a User Services organization helpful. Ability to work closely with scientific researchers and talk to users at their level of comprehension. Excellent writing skills. Send cover letter and resume to Cynthia Smithbower.

SENIOR SYSTEMS PROGRAMMER (PT357) Theory Center
Design, implement, test, and document a comprehensive operating system for a parallel supercomputer. Function as an authority on state of the art parallel architectures.
Requirements: B.S. in computer science plus 3-5 years experience; or equivalent in education and experience. Sound knowledge of operating systems, systems design, and software engineering. Experience working with 4.2/3BSD UNIX. Send cover letter and resume to Cynthia Smithbower.

ASSOCIATE DEAN (PC344) Graduate School
Responsible for supervision of daily function and operation of Graduate School Office. Counseling and guidance of graduate students. Assist Dean in implementation and on-going review of Graduate School legislation and policy coordination. Handle special projects arising both internally and externally.
Requirements: PhD plus administrative experience at university level preferred. Faculty supervision of graduate students desirable. Demonstrated capability for efficient, accurate, and analytical recording and interpretation of data and policies. Familiarity with administrative computing. Excellent interpersonal skills. Send cover letter and resume or call in confidence to Esther L. Smith (607-255-6874).

ADMISSIONS COUNSELOR (PA341) Engineering Admissions and Undergraduate Affairs
Participate in applicant recruiting activities and admissions screening; conduct public and personal admissions conferences; travel to meet goals of college; give academic and career advice; coordinate preparation of office publications; supervise statistical computing for Engineering Admissions and Undergraduate Affairs programs.
Requirements: Bachelor's degree or equivalent preferably in engineering; or Master's degree or equivalent in counseling or related field with experience. Demonstrated organizational, interpersonal and communication (written and oral) skills; public speaking ability; experience with statistical computer systems such as SPSS, SAS or DBase. Send cover letter and resume to Esther L. Smith by September 11, 1986.

STAFF WRITER I (PC343) Media Services
Research, write, edit and produce radio news actuality reports for Consumer Information Network; develop, produce and direct other projects within TV-Radio-Film Center as may be required and function as a creative member of an interrelated television and radio production unit.
Requirements: Bachelor's or equivalent degree in Radio-TV, Communications field, or consumer fields preferred. Minimum 2-3 years experience in all aspects of broadcast news and audio production; or demonstrable skills of a high nature. Functional knowledge of operation of professional audio equipment. Excellent interpersonal skills working with faculty, staff, and clients. Send cover letter, resume, writing sample and audio tape to Esther L. Smith.

ASSISTANT DIRECTOR OF ADMINISTRATIVE OPERATIONS (PA342) Human Ecology Administration
Assist in budget development for College, monitor performance. Provide financial analyses and develop income and expense projections. Responsible for College personnel database and provide information for decision-making. Review and approve personnel actions. Coordinate implementation of salary programs. Aid in coordination of administrative computing systems and services.
Requirements: Bachelor's degree with concentration in finance or accounting; MBA preferred. Minimum 3-5 years experience in financial analysis. Excellent communication skills required. Experience with microcomputer applications and familiarity with software packages such as Lotus 1-2-3 and DBase III. Send cover letter and resume to Esther L. Smith by September 11, 1986.

EXTENSION SUPPORT AIDE (PC332) Cornell Plantations
Provide support services utilizing research, writing and teaching skills to aid in development of an elementary science education program and accompanying teacher in service program. 1 year appointment.
Requirements: Bachelor's degree in biological sciences, education or related field. Minimum two or more years of elementary school science teaching. Knowledge of recent literature in children's learning theory. Some experience facilitating teacher in-service programs. Excellent communication (oral and written) skills. Send cover letter and resume to Esther L. Smith.

PRODUCTION COORDINATOR (PA3316) Media Services
Provide overall coordination for production of publications and related graphics materials.
Requirements: Bachelor's degree or equivalent, preferably in graphic arts, business, or communications. Knowledge of graphic arts procedures with particular emphasis on printing processes, typesetting, estimating and scheduling. Strong interpersonal skills. Send cover letter and resume to Esther L. Smith by September 11, 1986.

DEVELOPMENT ASSISTANT (PC323) University Libraries Development Office
Assist Director of Development for University Libraries by coordinating and executing projects essential to marketing and stewardship aspects of University Libraries. Analyze gift data and acknowledgements; coordinate

correspondence flow; coordinate special events on-campus sponsored by Libraries; maintain automated system for gift reporting from Public Affairs Records; act as liaison with Gift Records section. Other duties as assigned.
Requirements: Knowledge of Cornell University specifically familiarity with Cornell's gift giving procedures and public affairs records. Computer experience including knowledge of database information systems necessary. Demonstrated excellent communication (verbal and written) and strong organizational and interpersonal skills. Send cover letter and resume to Michele Draiss, 235 Olin Library, Cornell University, Ithaca, NY 14853.
Minimum Biweekly Starting Salary: \$565.25

BUSINESS MANAGER (PA298) Repost Vice President for Campus Affairs
Responsible for overall business, financial and administrative affairs of Division of Campus Life. The Division has a budget of approximately \$60 million and is composed of the following student services and auxiliary enterprises: Campus Store, Dean of Students Office, Dining Services, Health Services, International Student Office, Office of the Assemblies, Public Safety, Religious Affairs, Residence Life, Transportation Services and Unions & Activities. The position is responsible to the Vice President for Campus Affairs.
Requirements: MBA, 3-5 years financial experience desirable. Send resume and cover letter to Esther L. Smith by September 10, 1986.

STAFF WRITER II (PC316) University Development
Create and write promotional brochures, articles, proposals and letters related to fund raising or public relations. Carry out special communication assignments and develop communication strategies working with various University faculty and staff.
Requirements: Bachelor's degree in English, journalism, marketing or communication arts. Minimum 1 year experience as a writer in fund raising, advertising, public relations or higher education. Send cover letter, resume, and 3 writing samples or call Esther L. Smith in confidence.

SECRETARY, GR18 (C359) Institute for Comparative & Environmental Toxicology
Provide assistance to Director of the Institute in daily functions of the office. Develop filing system; coordinate travel; act as receptionist; schedule meetings and seminars; order supplies.
Requirements: High school diploma or equivalent. Secretarial school desirable. Medium typing. Minimum 2-5 years experience in an educational setting. Good organizational, interpersonal and communication skills.
Minimum Biweekly Starting Salary: \$431.43

ACCOUNTS ASSISTANT, GR18 (C352) Stores Bookkeeping
Process and input payments to L-Order Vendors, reconcile statements and resolve concerns between vendors and campus departments, process mail; file billing records.
Requirements: High school diploma. Light typing. Office or bookkeeping experience desirable. Good interpersonal and communication skills. Ability to operate calculator and Word Processor for data input.
Minimum Biweekly Starting Salary: \$431.43

SECRETARY, GR16 (C3510) NYSSILR-Capital District Extension-Albany
Provide general secretarial support in Capital District Extension Office process requests for materials; maintain mailing lists and process bulk mailings; prepare packets for workshops; provide receptionist support, assist in registration for work shops.
Requirements: High school education or equivalent. Medium typing. Minimum of one year of general secretarial and office experience.
Minimum Biweekly Starting Salary: \$390.08

RECEPTIONIST, GR16 (C353) National Submicron Facility
Provide receptionist support for facility; assist in other administrative support areas; data entry.
Requirements: High school diploma or equivalent. Medium typing. Experience in greeting public and answering telephone. Ability to work comfortably in a busy office and work well with diverse groups. Good communications skill. Computer experience preferred.
Minimum Biweekly Starting Salary: \$390.08

ADMINISTRATIVE AIDE, GR23 (C347) Theatre Arts
Market and promote Theatre Cornell. Develop audience for theatre productions material (brochures, programs, news releases); supervise box office operations and front of house staff. Monday through Friday, 9:00 to 5:00; some evenings.
Requirements: B.A. or B.F.A. in Arts or Arts-Business field or equivalent. Medium typing. Excellent writing skills. Non-profit performing arts management or marketing experience required. Knowledge of graphic arts. Experience with box office operations. Good organizational and interpersonal skills. Send cover letter and resume or call Esther L. Smith in confidence (607-255-6874).

EDITORIAL ASSISTANT, GR18 (C349) University Press
Act as assistant to editor responsible for acquiring scholarly books in the humanities; Type; file; follow-up; some contact with authors and Press advisers. 2 year appointment, renewable.
Requirements: A.A.S. degree or equivalent desirable. Heavy typing. Interest in book publishing as a possible career. Prior experience in publishing helpful.
Minimum Biweekly Starting Salary: \$431.43

ASSISTANT COSTUME SHOP SUPERVISOR (C294) Repost Theatre Arts
Assist lecturer in charge of costumes with operation of Theatre Cornell costume shop. Purchase supplies; organize and schedule work; drafting, cutting and costume construction as needed. Full-time, regular; end of August until Mid May.
Requirements: Graduate degree in theatrical costuming preferred or undergraduate degree and some professional theatre experience. Supervision of costume construction. Operation and maintenance of costume shop equipment. Patternmaking. Costume construction. Budgeting skills. Send cover letter and resume or call Esther L. Smith in confidence.
Minimum Biweekly Starting Salary: \$572.27

ADMINISTRATIVE AIDE, GR20 (C356) Campus Planning
Assist Director in Tracking and Management and reporting systems for Planning projects. Monitor budgets, schedules, and maintain computerized filing system.
Requirements: Associate's degree preferred or equivalent experience. 4-5 years experience. Medium typing. Ability to use personal computer-word processing equipment. Excellent organizational, interpersonal, communication (written and oral) skills essential. Familiarity with design-planning activity preferred. Ability to work under pressure and meet deadlines.
Minimum Biweekly Starting Salary: \$482.33

SENIOR MANUSCRIPT ARRANGER (C358) NYSSILR, Catherwood Library
To arrange and describe manuscript and other non-book materials according to instructions provided by processing supervisor; assist in answering reference questions on collections processed; mounting exhibits, minor mending, counting documents and labeling boxes.
Requirements: College course work in Modern American History, Industrial Relations or Labor History preferred or must be willing to take related courses. Light typing. Excellent writing skills required. Familiarity with word processing helpful.
Minimum Biweekly Starting Salary: \$431.43

SENIOR RECORDS ASSISTANT, GR18 (C357) Olin Library-Catalog Department
Responsible for providing support for cataloging process through pre-catalog searching; processing of added copies and added location material; locating in-process material; process Cornell dissertations. Other administrative duties.
Requirements: Associate's degree, two years of college or equivalent. Light typing. Previous library technical services experience and microcomputer experience desirable.
Minimum Biweekly Starting Salary: \$431.43

BUS DRIVER, SO20 (G351) CU Transit-Endowed
Drive CU Transit bus on-campus and charters. Check vehicle for proper operating condition; fuel bus; keep vehicle clean and neat; enforce rules and regulations; provide information and directions; maintain security and keep count of passengers. Monday - Friday, 39 hours per week.
Requirements: High school diploma or equivalent. Class II driver's license. Pre-employment physical required per Article 19A of the Department of Motor Vehicle. 3 - 6 months current bus driving experience.
Minimum Starting Salary: \$6.34 per hour

TECHNICIAN, GR18 (G353) Veterinary Microbiology
Care of herd of horses, donkeys, mules, and cattle used in reproduction and immunology research. Includes feeding, cleaning, and general barn and stable upkeep, and assistance with experiments (nursing, taking blood samples, recording data).
Requirements: B.S. in Veterinary Medicine (Associate's Degree) or equivalent experience desirable. Practical experience with farm animals with skills to assist in surgical procedures, take blood samples, provide nursing care for post-surgical cases. Week-end-holiday work required. Ability to lift 80 pounds daily necessary. Pre-employment physical given.
Minimum Biweekly Starting Salary: \$431.43

DISPATCHER II, SO18 (G343) Maintenance and Service Operations - Endowed
Serve as primary communication link between campus community and Maintenance and Service Operations for maintenance requests. Issue job tickets utilizing mainframe terminal. Dispatch tradespersons and assistants via radio communication system.
Requirements: High school diploma. Medium typing. Excellent interpersonal and telephone skills. Ability to work under pressure, with careful attention to details. Experience with computers and radio communication helpful. Training or experience in public relations, sales or service preferred.
Minimum hourly rate: \$5.71

TECHNICIAN, GR21 (T355) Division of Nutritional Sciences
Work with recombinant DNA purify and sequence nucleic acids. Construction and screening of libraries.
Requirements: B.S. in biochemistry or related field. Experience with nucleic acid preferred. Experience with recombinant DNA techniques; should be able to follow biochemical protocols and be able to work with limited supervision. Apply by September 12, 1986.
Minimum Biweekly Starting Salary: \$512.32

TECHNICIAN, GR20 (T352) Biochemistry, Molecular & Cell Biology
Carry out experiments on structure, function and genetics of ribosomal DNA in Physarum. Culture Physarum, Nucleic acid molecular biology-including radioisotope labeling, electrophoresis, hybridizations, sequencing, cloning, etc. Some lab maintenance tasks.
Requirements: Bachelor's degree with some research experience; graduate coursework preferred. Knowledge of culturing techniques. Apply by September 12, 1986.
Minimum Biweekly Starting Salary: \$482.33

TECHNICIAN, GR19 (T351) Food Science
Provide technical assistance to dairy industry; monitor quality of fluid milk and dairy products from milks of different sources working in a department's pilot plant for quality evaluations and shelf-life studies.
Requirements: Bachelor's degree or combination of education and experience with dairy products, laboratory analyses, or plant production. Experience with basic lab equipment: pH meters, spectrophotometers, etc. Familiarity with dairy chemistry and dairy microbiology principles. Experience with computers helpful. Apply by September 12, 1986.

TECHNICIAN, GR19 (T353) Diagnostic Laboratory
Perform radioimmunoassays of hormones and other antigens on animal and some human blood samples. Prepare samples (centrifuging, extracting with volatile solvents, dispensing into assay tubes), handle low level radioactive materials, protocol assays and calculate their results, refer veterinarians and other clients with inquiries to proper sources of information, prepare buffers and hormone solutions, maintain paper and computer files, wash dishes, and clean laboratory.
Requirements: Bachelor's degree in biological or chemical science. Basic skills in and knowledge of chemical laboratory procedures, mathematics, communications, and keyboarding essential. Training in immunology, endocrinology, and biochemistry useful. Must be able to work accurately under pressure of frequent deadlines. Apply by September 19, 1986.
Minimum Biweekly Starting Salary: \$457.09

TECHNICIAN, GR20 (T124) Repost Neurobiology and Behavior
Assist in design and conduct of electrophysiological and behavioral research, and aid in administration of a small laboratory. The research program concerns electrophysiology of lateral line system of tropical fishes and studies of communication behavior among fish.

TECHNICIAN, GR19 (T353) Diagnostic Laboratory
Perform radioimmunoassays of hormones and other antigens on animal and some human blood samples. Prepare samples (centrifuging, extracting with volatile solvents, dispensing into assay tubes), handle low level radioactive materials, protocol assays and calculate their results, refer veterinarians and other clients with inquiries to proper sources of information, prepare buffers and hormone solutions, maintain paper and computer files, wash dishes, and clean laboratory.
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Requirements: Bachelor's degree in biological or chemical science. Basic skills in and knowledge of chemical laboratory procedures, mathematics, communications, and keyboarding essential. Training in immunology, endocrinology, and biochemistry useful. Must be able to work accurately under pressure of frequent deadlines. Apply by September 19, 1986.
Minimum Biweekly Starting Salary: \$457.09

SECRETARY, GR18 (C359) Institute for Comparative & Environmental Toxicology
Provide assistance to Director of the Institute in daily functions of the office. Develop filing system; coordinate travel; act as receptionist; schedule meetings and seminars; order supplies.
Requirements: High school diploma or equivalent. Secretarial school desirable. Medium typing. Minimum 2-5 years experience in an educational setting. Good organizational, interpersonal and communication skills.
Minimum Biweekly Starting Salary: \$431.43

ACCOUNTS ASSISTANT, GR18 (C352) Stores Bookkeeping
Process and input payments to L-Order Vendors, reconcile statements and resolve concerns between vendors and campus departments, process mail; file billing records.
Requirements: High school diploma. Light typing. Office or bookkeeping experience desirable. Good interpersonal and communication skills. Ability to operate calculator and Word Processor for data input.
Minimum Biweekly Starting Salary: \$431.43

SECRETARY, GR16 (C3510) NYSSILR-Capital District Extension-Albany
Provide general secretarial support in Capital District Extension Office process requests for materials; maintain mailing lists and process bulk mailings; prepare packets for workshops; provide receptionist support, assist in registration for work shops.
Requirements: High school education or equivalent. Medium typing. Minimum of one year of general secretarial and office experience.
Minimum Biweekly Starting Salary: \$390.08

RECEPTIONIST, GR16 (C353) National Submicron Facility
Provide receptionist support for facility; assist in other administrative support areas; data entry.
Requirements: High school diploma or equivalent. Medium typing. Experience in greeting public and answering telephone. Ability to work comfortably in a busy office and work well with diverse groups. Good communications skill. Computer experience preferred.
Minimum Biweekly Starting Salary: \$390.08

ADMINISTRATIVE AIDE, GR23 (C347) Theatre Arts
Market and promote Theatre Cornell. Develop audience for theatre productions material (brochures, programs, news releases); supervise box office operations and front of house staff. Monday through Friday, 9:00 to 5:00; some evenings.
Requirements: B.A. or B.F.A. in Arts or Arts-Business field or equivalent. Medium typing. Excellent writing skills. Non-profit performing arts management or marketing experience required. Knowledge of graphic arts. Experience with box office operations. Good organizational and interpersonal skills. Send cover letter and resume or call Esther L. Smith in confidence (607-255-6874).

EDITORIAL ASSISTANT, GR18 (C349) University Press
Act as assistant to editor responsible for acquiring scholarly books in the humanities; Type; file; follow-up; some contact with authors and Press advisers. 2 year appointment, renewable.
Requirements: A.A.S. degree or equivalent desirable. Heavy typing. Interest in book publishing as a possible career. Prior experience in publishing helpful.
Minimum Biweekly Starting Salary: \$431.43

ASSISTANT COSTUME SHOP SUPERVISOR (C294) Repost Theatre Arts
Assist lecturer in charge of costumes with operation of Theatre Cornell costume shop. Purchase supplies; organize and schedule work; drafting, cutting and costume construction as needed. Full-time, regular; end of August until Mid May.
Requirements: Graduate degree in theatrical costuming preferred or undergraduate degree and some professional theatre experience. Supervision of costume construction. Operation and maintenance of costume shop equipment. Patternmaking. Costume construction. Budgeting skills. Send cover letter and resume or call Esther L. Smith in confidence.
Minimum Biweekly Starting Salary: \$572.27

TECHNICIAN, GR18 (G353) Veterinary Microbiology
Care of herd of horses, donkeys, mules, and cattle used in reproduction and immunology research. Includes feeding, cleaning, and general barn and stable upkeep, and assistance with experiments (nursing, taking blood samples, recording data).
Requirements: B.S. in Veterinary Medicine (Associate's Degree) or equivalent experience desirable. Practical experience with farm animals with skills to assist in surgical procedures, take blood samples, provide nursing care for post-surgical cases. Week-end-holiday work required. Ability to lift 80 pounds daily necessary. Pre-employment physical given.
Minimum Biweekly Starting Salary: \$431.43

DISPATCHER II, SO18 (G343) Maintenance and Service Operations - Endowed
Serve as primary communication link between campus community and Maintenance and Service Operations for maintenance requests. Issue job tickets utilizing mainframe terminal. Dispatch tradespersons and assistants via radio communication system.
Requirements: High school diploma. Medium typing. Excellent interpersonal and telephone skills. Ability to work under pressure, with careful attention to details. Experience with computers and radio communication helpful. Training or experience in public relations, sales or service preferred.
Minimum hourly rate: \$5.71

TECHNICIAN, GR21 (T355) Division of Nutritional Sciences
Work with recombinant DNA purify and sequence nucleic acids. Construction and screening of libraries.
Requirements: B.S. in biochemistry or related field. Experience with nucleic acid preferred. Experience with recombinant DNA techniques; should be able to follow biochemical protocols and be able to work with limited supervision. Apply by September 12, 1986.
Minimum Biweekly Starting Salary: \$512.32

TECHNICIAN, GR20 (T352) Biochemistry, Molecular & Cell Biology
Carry out experiments on structure, function and genetics of ribosomal DNA in Physarum. Culture Physarum, Nucleic acid molecular biology-including radioisotope labeling, electrophoresis, hybridizations, sequencing, cloning, etc. Some lab maintenance tasks.
Requirements: Bachelor's degree with some research experience; graduate coursework preferred. Knowledge of culturing techniques. Apply by September 12, 1986.
Minimum Biweekly Starting Salary: \$482.33

TECHNICIAN, GR19 (T351) Food Science
Provide technical assistance to dairy industry; monitor quality of fluid milk and dairy products from milks of different sources working in a department's pilot plant for quality evaluations and shelf-life studies.
Requirements: Bachelor's degree or combination of education and experience with dairy products, laboratory analyses, or plant production. Experience with basic lab equipment: pH meters, spectrophotometers, etc. Familiarity with dairy chemistry and dairy microbiology principles. Experience with computers helpful. Apply by September 12, 1986.

TECHNICIAN, GR19 (T353) Diagnostic Laboratory
Perform radioimmunoassays of hormones and other antigens on animal and some human blood samples. Prepare samples (centrifuging, extracting with volatile solvents, dispensing into assay tubes), handle low level radioactive materials, protocol assays and calculate their results, refer veterinarians and other clients with inquiries to proper sources of information, prepare buffers and hormone solutions, maintain paper and computer files, wash dishes, and clean laboratory.
Requirements: Bachelor's degree in biological or chemical science. Basic skills in and knowledge of chemical laboratory procedures, mathematics, communications, and keyboarding essential. Training in immunology, endocrinology, and biochemistry useful. Must be able to work accurately under pressure of frequent deadlines. Apply by September 19, 1986.
Minimum Biweekly Starting Salary: \$457.09

TECHNICIAN, GR20 (T124) Repost Neurobiology and Behavior
Assist in design and conduct of electrophysiological and behavioral research, and aid in administration of a small laboratory. The research program concerns electrophysiology of lateral line system of tropical fishes and studies of communication behavior among fish.

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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 or experience in the following areas are encouraged to apply: biochemistry, chemistry, microbiology, electronics, physics and licensed animal health technicians.

TECHNICIAN, GR21 (T355) Division of Nutritional Sciences
Work with recombinant DNA purify and sequence nucleic acids. Construction and screening of libraries.
Requirements: B.S. in biochemistry or related field. Experience with nucleic acid preferred. Experience with recombinant DNA techniques; should be able to follow biochemical protocols and be able to work with limited supervision. Apply by September 12, 1986.
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Provide technical assistance to dairy industry; monitor quality of fluid milk and dairy products from milks of different sources working in a department's pilot plant for quality evaluations and shelf-life studies.
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Requirements: Bachelor's degree in biological or chemical science. Basic skills in and knowledge of chemical laboratory procedures, mathematics, communications, and keyboarding essential. Training in immunology, endocrinology, and biochemistry useful. Must be able to work accurately under pressure of frequent deadlines. Apply by September 19, 1986.
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Assist in design and conduct of electrophysiological and behavioral research, and aid in administration of a small laboratory. The research program concerns electrophysiology of lateral line system of tropical fishes and studies of communication behavior among fish.

Biochemists perfect glow-in-the-dark tagging technique

Genetic engineers at the Boyce Thompson Institute for Plant Research have perfected a technique for tagging genes with a glow of natural light.

Called bioluminescent genetic tagging, the technique reveals gene expression by causing cells to light up they as follow the instructions of recombinant genes.

"We can now take organisms, such as bacteria, and follow their exact interaction with plants, animals, or each other — based simply on detection of light — without destroying the organisms. We can 'dissect' biological, developmental processes as they occur," says Aladar A. Szalay, the biochemist who led development of the new procedure.

Similar but more refined than radioactive tracing, bioluminescence allows genetic engineers to trace individual genes.

The first demonstration of bioluminescent genetic tagging has been in bacteria that produce nitrogen on the roots of certain plants. Work is now under way at Cornell and at the institute to apply the glow-in-the-dark technique to insects and plants.

"If the technology can be perfected," Szalay says, "one can imagine the technique used in studying the development of specialized tissue or organs in animals and plants. If the procedure can be fine-tuned, perhaps it can even be used to identify groups of cells or individual cells, such as cancer cells."

Bioluminescent genetic tagging is the work of Szalay and Roman P. Legocki and Misuk Legocki, members of his group at Boyce Thompson Institute, and Thomas O. Baldwin of Texas A&M University.

The technique works by joining developmentally regulated signals with the light-emitting genes and returning them to the chromosome of a recipient organism, say the scientists.

Similar in principle to tagging with radioactive tracers or labeling with fluorescent markers, the new system operates on a much more refined scale. It tags, and allows researchers to follow, individual genes, rather than entire cells or tissues.

The source of the glow is an enzyme called luciferase, which is made by bacteria (*Vibrio harveyi*) that live in salt water. The two genes that encode for luciferase were isolated by Baldwin's laboratory in 1982.

Boyce Thompson genetic engineers put the bacterium's light-producing potential to work. They fused the bacterial genes responsible for making luciferase (the luxAB genes) to promoter sequences (the plant-triggered signal flags)

from the nitrogen fixation genes (*nifD* and *nifH*) found in nitrogen-fixing bacteria called *Rhizobium*.

Nitrogen fixation genes are responsible for producing nitrogenase, an enzyme that is the catalyst for conversion (or fixation) of atmospheric nitrogen to soil nutrients. *Rhizobia* are the bacteria that normally live — in a symbiotic relationship with plants — within structures called nodules that form on the roots of soybeans, alfalfa, and other leguminous plants.

Bioluminescent genetic tagging has several advantages over a more commonly used assay, which looks for an enzyme-producing gene in genetic engineering's most common "workhorse" bacterium, *E. Coli*, according to the Boyce Thompson researchers.

Unlike the Beta-galactosidase enzyme-producing gene *lacZ*, the *luxAB* genes can be detected in virtually any host or any growth medium, and the light from luciferase can be measured in seconds. Furthermore, they say, bioluminescent genetic tagging is far more sensitive than any other system.

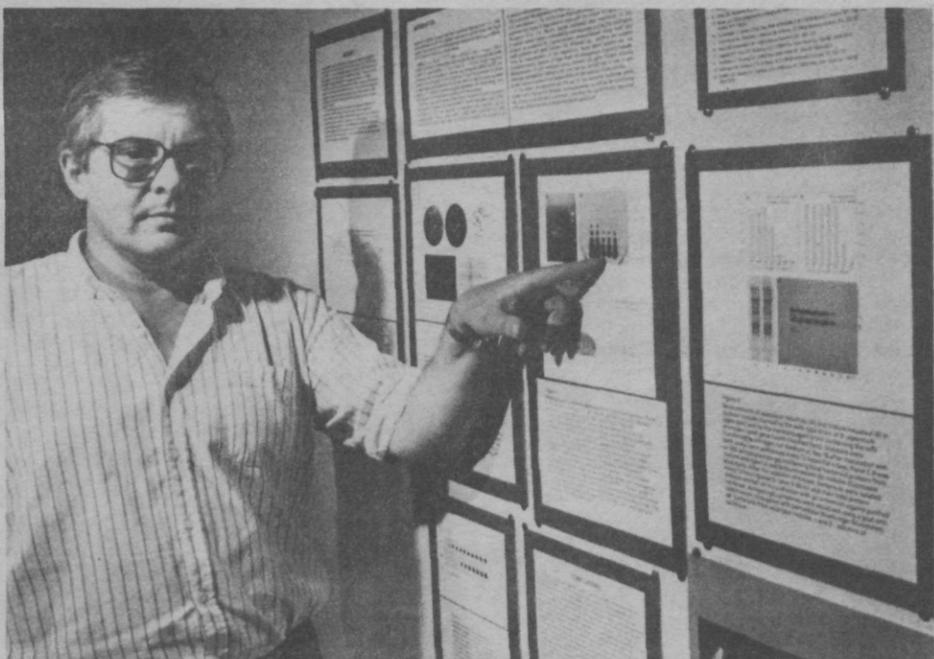
The process will be particularly useful to BTI scientists involved in nitrogen fixation work. One of their future goals is to engineer crop plants such as soybeans and other legumes that can fix nitrogen. Such plants would reduce the need for costly chemical fertilizers.

However, Szalay sees a much wider application for bioluminescent genetic tagging. Recent progress in experiments at Cornell indicates the technique should work in studying the regeneration process in plants. Transferring luciferase genes to *Drosophila*, the insect used most often in the study of heredity, would give fruit flies the luminescent properties of fireflies and provide a new tool for studying developmental processes, the biochemist says.

And by attaching the luciferase genes to signals of genes that control growth in a mouse embryo, for example, stages of development could be observed day by day, week by week, based on light emission in a living organism.

Results of the bioluminescent genetic tagging experiments were first reported at the March 1986 meeting of the American Society of Microbiology in Washington, D.C. Details of the technique will be reported in an upcoming issue of *Proceedings of the National Academy of Sciences*.

— Roger Segelken



Boyce Thompson Institute Biochemist Aladar A. Szalay displays evidence of bioluminescent genetic tagging in soybean nodules.

One World Room delays its opening

Faculty Club members who had expected to eat lunch in the One World Room of Anabel Taylor Hall beginning Sept. 1 and throughout the renovation of the Statler Inn, will find the One World Room closed this week.

The One World Room will be open for lunch beginning in the middle of next week, at the earliest. For more information, call Cornell Dining, 255-8581.

Blues festival opens

The Arts Project of Willard Straight Hall has invited leading exponents of various blues styles and top names among academic blues specialists to the campus for its "Blues Traditions" festival, which will consist of lectures, feature films, slides, videos, discussions and concerts.

The festival begins with Jesse Mae Hemphill, a fourth generation blues musician, on Sept. 5. Hemphill, who plays electric guitar and sings in the rural folk style, was nominated for the W. C. Handy Best Female Traditional Singer Award in 1985.

Hemphill will offer a master class in the Willard Straight Hall Music Room Sept. 5 from 3:30 to 5 p.m. (\$2 per person) and will perform in the memorial room at 8 p.m. (\$5 students, \$6 non-students).

David Evans, professor of music and director of regional studies in musicology at Memphis State University and author of "Big Road Blues" will speak on "Roots of the Blues" in the memorial room at 3 p.m.

Other concerts scheduled throughout the year include: Flora Molton and Eleanor Ellis, Oct. 17, 18; John Cephas and Phil Wiggins, Dec. 12, 13; Valerie Wellington and Band, Jan. 30, 31; Son Thomas and Walter Liniger, March 13, 14; and Delton Brouard and the Lawtell Playboys, May 22, 23.

For more information about the Blues festival, call Sharon Adams at 255-5170.

Barton Blotter

Computer printer stolen

Seven of the 12 thefts reported on campus during the period Aug. 25 through Aug. 28 were of cash amounting to \$183 taken mostly from wallets.

According to the morning reports of the Department of Public Safety, \$2,471 in cash and valuables were stolen during the four-day period. These included a \$1,000 computer printer taken from 338 Goldwin Smith Hall and a \$230 bicycle reported stolen from Sigma Alpha Epsilon fraternity house.

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

Job Opportunities

Requirements: Bachelor's degree in some field of experimental biology. Experience in a research laboratory environment. Familiarity with electrophysiological, neurobiological and animal behavior techniques. Excellent hand-eye coordination for hand work; skilled in use of laboratory equipment and tools. Apply by September 19, 1986.

Minimum Biweekly Starting Salary: \$482.33

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

Requirements: Bachelor's degree in Chemistry or Biochemistry. Experience working with proteins and enzymes and with biochemical preparations. Good organizational skills. Apply by September 12, 1986.

Minimum Biweekly Starting Salary: \$512.32

TECHNICIAN, GR19 (T312) Plant Pathology

Carry out experiments with satellite RNAs of cucumber mosaic virus to explore their use as a cloning vector for plants. Duties involve many basic techniques of molecular biology including DNA constructions and hybridization assays, as well as experiments with whole plants.

Requirements: Bachelor's degree or equivalent in biology, genetics, biochemistry, or related field. One year laboratory research experience involving nucleic acid molecular biology. Apply by September 12, 1986.

Minimum Biweekly Starting Salary: \$457.09

TECHNICIAN, GR21 (T263) Diagnostic Laboratory-Repot

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

Requirements: Bachelor's degree or equivalent in microbiology, serology or related field. Preferably two years experience in serology or immunology laboratory and a knowl-

edge of computers. Familiarity with general lab equipment; centrifuges, balances, pipetors. Apply by September 18, 1986.

Minimum Biweekly Starting Salary: \$512.32

TECHNICIAN, GR20 (T124) Neurobiology and Behavior Repot

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

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

Part-Time

BUS DRIVER, SO20 (G352) CU Transit - Endowed

Drive CU Transit bus on-campus and charters. Check vehicle for proper operating condition; fuel bus; keep vehicle clean and neat; enforce rules and regulations; provide information and directions; maintain security and keep count of passengers. Mornings, Monday - Friday, 21 hours per week.

Requirements: High school diploma or equivalent. Class II driver's license. Pre-employment physical required per Article 19A of the Department of Motor Vehicles. 3-6 months current bus driving experience. Apply in person, Monday - Friday, 9 am - 12 noon at the East Hill Plaza Employment Office.

Minimum Starting Salary: \$6.34 per hour

COOK, SO18 (G342, G3410) Residence Life - Endowed

Clean, prepare and cook food for University-owned fraternity. Clean all food prepara-

tion areas, cooking areas and assist in keeping storerooms and refrigerators sanitary. Aid student steward in menu-planning and food purchases as needed. Varying work hours in response to special menu plan functions.

Requirements: High school diploma or equivalent. Able to follow recipes accurately, operate standard food preparation and cooking equipment. Experience in large quantity cooking experience. Good organizational skills. Able to work with little supervision and with student volunteers; able to supervise student helpers. Apply in person, Monday through Friday, 9 a.m. to 12 noon at the East Hill Plaza employment office.

Minimum hourly rate: \$5.71

RESEARCH AIDE, GR19 (C3214) Animal Science

Serve as technical assistant for research in microbiology. Collect, organize, analyze, and summarize data and prepare manuscripts for publication. 25 hours per week.

Requirements: Bachelor's degree in Agriculture or Biological Sciences. Medium typing. Word processing experience preferred. Knowledge of computers and basic statistics. Ability to organize and work independently. Experience in technical editing or publishing. Some experience with graphics and artistic layout. Laboratory experience highly desirable. Send cover letter and resume or call Esther L. Smith in confidence (607-255-6874).

Biweekly full-time equivalent: \$457.09

Temporary

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

BUS DRIVER, (4 Positions) CU Transit - Endowed

Drive CU Transit bus on-campus and charters. Check vehicle for proper operating condition; fuel bus; keep vehicle clean and neat; enforce rules and regulations; provide information and directions; maintain security and keep count of passengers. Mornings, Monday - Friday, 19 hours per week.

Requirements: High school diploma or equivalent. Class II driver's license. Pre-employment physical required per Article 19A of the Department of Motor Vehicles. 3-6 months current bus driving experience. Apply in person, Monday - Friday, 9am - 12 noon at the East Hill Plaza Employment Office.

SECRETARY, GR17 (C354) Language House Program

Type correspondence, reports and agendas; answer phone; process applications for positions in Language House Program; process expenditures. Part-time casual.

Requirements: High school diploma or equivalent. Medium typing. Strong organizational, communication and secretarial skills. Ability to be flexible and work independently. Some office experience.

Minimum full-time equivalent: \$409.53

ADMINISTRATIVE AIDE (C3418) Natural Resources

Provide clerical assistance for Cooperative Extension program. Type correspondence and reports from dictaphone; arrange meetings; send mailings. Receptionist duties include answering telephone, greeting public. Monday through Friday, 6 hours per day - flexible.

Requirements: Associate's degree or equivalent. Medium typing. Minimum 2-3 years work experience, excellent communication skills required.

Minimum hourly rate: \$6.00

RECORDS ASSISTANT (C348) A.R. Mann Library

Input data into RLIN database. File catalog cards into card catalogs. Type cross-reference cards, shelf books; other duties as assigned. Part-time, temporary until June 3, 1987.

Requirements: High school education or equivalent. Medium typing. Ability to per-

form highly detailed and repetitive tasks accurately. Office or computer experience helpful.

Minimum hourly rate: \$4.00

Academic

ASSISTANT OR ASSOCIATE PROFESSOR (A351)

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

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

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

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

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

New labs completed at Wilson synchrotron

CHES, the laboratory at the southeast edge of the campus that captures some of the world's most powerful X-rays from a ring of speeding electrons, and the Laboratory of Nuclear Studies have completed a \$1.3 million addition to their national facilities.

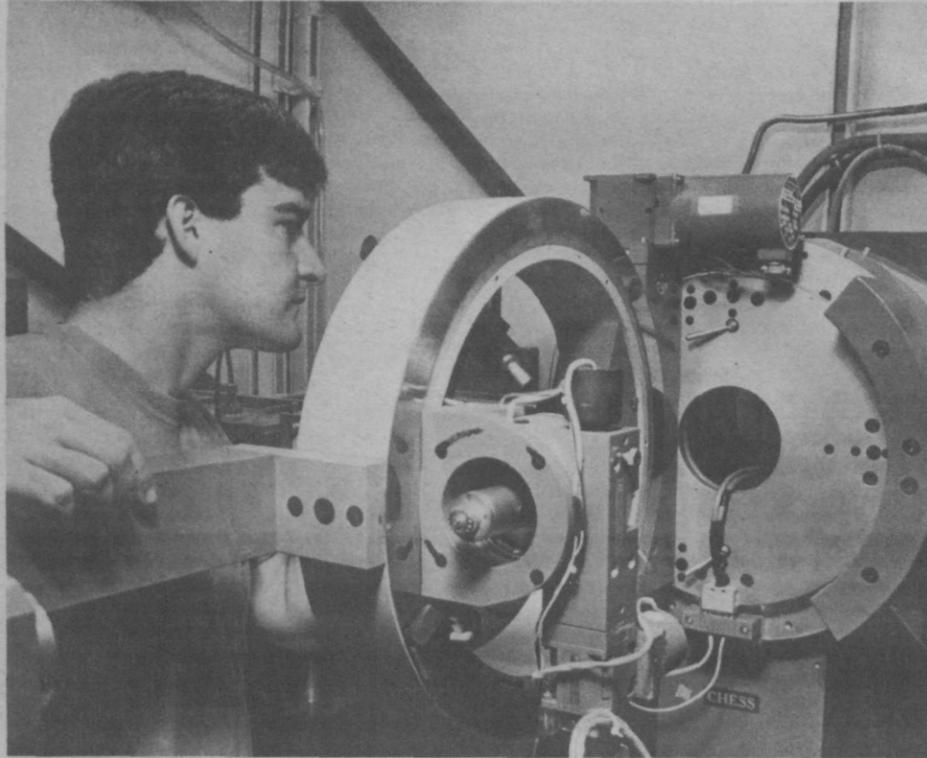
Dedication ceremonies Sept. 9 at 3 p.m. in the Cornell High Energy Synchrotron Source will mark the opening of a three-story addition to the Wilson Synchrotron Laboratory. Public tours will follow dedication of the facility.

The new wing, which contains expanded laboratories, darkroom and computer facilities, was funded by \$1 million from the National Science Foundation and \$300,000 in support from Cornell.

"CHES already is a world leader in synchrotron radiation studies," said Boris W. Batterman, director of the facility and a professor of applied and engineering physics. "With this addition we will be able to supply its users with expanded support laboratories."

Users of the facility include faculty members and students from Cornell and other universities as well as scientists from national and industrial laboratories. CHES is one of four federally funded synchrotron radiation laboratories in the United States and among only about a dozen in the world.

CHES is attached to the Cornell Electron Storage Ring (CESR), also a national laboratory, and the university's synchrotron. That 10-billion-electron-volt atom-smashing facility is used in high-energy physics studies of subatomic particles such as quarks.



CHES operator Mark Keefe prepares a crystallographic sample for X-ray diffraction analysis at the Wilson Synchrotron Laboratory, which celebrates completion of a \$1.3 million addition this week.

The CHES facility is used for studies of larger structures and processes in all kinds of materials, from viruses and human blood cells to semiconductors, catalysts and minerals. Synchrotron radiation in the form of X-rays is taken from the electron storage ring, then shaped into beams and directed through samples of materials. X-ray film, video cameras and other devices record the diffraction, or scattering, of X-ray light as it bounces off the crystal-line structure of samples.

Changes occurring as quickly as a few billionths of a second within organic and inorganic materials can be recorded. X-ray diffraction with synchrotron radiation can reveal details of molecules a few atoms in size. Further analysis by computer allows construction of three-dimensional models.

Because of the extreme brightness of synchrotron radiation, X-ray diffraction exposures require only seconds or minutes. That compares with hours or days in a conventional X-ray source, based on a high-voltage vacuum tube. The rapid snapshots allow study of living samples with minimal damage. An uncontrolled synchrotron radiation beam, however, can shatter blocks of glass and melt through lead panels.

Accomplishments at CHES since it opened in 1980 include the first three-dimensional mapping of a common cold virus, the first time-resolved X-ray patterns at a few billionths of a second, and the first crystal structure determination at pressures greater than a megabar, or one million atmospheres.

— Roger Segelken

University official praises Corazon Aquino

A Cornell official who recently met President Corazon C. Aquino said the Philippine leader demonstrates calm in crisis and makes her own decisions.

Dorothy F. Cotton, director of student activities, said Mrs. Aquino is trying to build bridges to opponents of her government and wants to eliminate poverty in her Southeast Asian nation without begging from other countries.

Still, the Philippine leader is willing to accept help from friendly nations, Ms. Cotton added.

Ms. Cotton flew to Manila with Coretta Scott King, widow of Dr. Martin Luther King Jr., at President Aquino's invitation for the Aug. 21 memorial services marking the third anniversary of the assassination of her husband, Benigno S. Aquino Jr.

"I feel she is a woman of great calm who thinks through problems and makes her own decisions though she consults with experts on her team," Ms. Cotton said at a news conference after returning to Cornell.

"My sense is that she is the type of woman who makes her own decisions. She did not appear flustered when the power failed during a Manila Hotel banquet and other people feared sabotage. She remained calm."

Ms. Cotton spent only one day in Manila and said she is not a Philippine exp. Mrs. Aquino at a private family lunch and accompanied her during afternoon and evening events dedicated to her slain husband.

"She is trying to build bridges to the dissidents," Ms. Cotton said, referring to armed insurgents opposed to the Aquino government. "She is inviting them to come in and talk."

"You see poverty right in the center of Manila, people living in shanties, really just cubbyholes. It's a dire situation. My sense is she cares



Dorothy Cotton, director of student activities, recently visited Philippine President Corazon Aquino, whom she described as "a woman of great calm."

very deeply about her people and the deprivation.

"She knows they need a lot of help, but she does not intend to go around the world begging. She wants to establish friendly relations

and receive help in an atmosphere of dignity and respect."

President Aquino is scheduled to meet President Reagan in the White House Sept. 17.

— Albert E. Kaff

WSP introduces European Studies

The Western Societies Program will inaugurate a new undergraduate concentration in Modern European Studies this fall.

The concentration allows students in any college to complement their chosen major with a minor focusing on various aspects of European culture and society. It reflects a growing interest in contemporary Europe among students nationwide.

Requirements for completion of the minor include a core course, "Contemporary European Society and Politics," competence in a modern European language and three other courses in European studies.

Interest in Europe can also be pursued through Cornell Abroad, the International Internship program, and language houses.

This latest national resource center for Western European studies will support research in Europe by both undergraduates and graduate students, organize workshops and conferences and sponsor visiting speakers on campus.

Students interested in learning more about the program may visit the Western Studies Program at 117 Stimson Hall or call 255-7592.

CU expects to save \$15,000 with bulbs

New light bulbs being tried out in various locations on campus cost less, last longer, and consume less energy.

This past spring, the energy management group of the Department of Facilities Engineering replaced some 300 incandescent bulbs in portions of Uris Hall with new, low-wattage, screw-in fluorescent lamps. The 15-watt lamps, which became available only recently, replace 75-watt floodlight type lamps.

William F. Albem, manager of energy management at Cornell, estimates the university will save more than \$15,000 a year with the lower-wattage lamps. In addition to energy savings, the new fluorescent units last about four times longer, requiring fewer bulb changes.

New press box at Schoellkopf delayed

Problems with the concrete being used for columns to support the university's new press box atop the West Stands at Schoellkopf Field will delay the project several weeks. Cornell officials said the problem with the north tower does not affect other sections of the stadium reserved for spectators.

Routine compression tests performed on concrete samples showed that poured concrete for a portion of the tower is below the 4,000 pound strength specified by the university, according to Ruben O. Rogers, director of construction contract management.

Cornell will provide a temporary press facility in time for the first home football game Sept. 20 with Princeton, Rogers said.

Laing E. Kennedy, director of athletics, said, "I'm not happy about the delay in what would be one of the finest press facilities in the nation, but it's better to find the problem during construction when we can correct it fairly easily."

Independent testing is performed regularly to ensure the quality of materials being used in construction on campus, Rogers explained. He said these tests indicate that materials for other campus projects meet specifications.

In addition, Kenneth Hover, associate professor of structural engineering, an expert in concrete structures, is helping the university's construction administrators analyze results of testings.

The contractor on the press box project — William C. Pahl Construction Co. of Syracuse — will begin removing the faulty concrete next week, Rogers said. New concrete will be poured at a later date, he added.

"The contractor has been in touch with the supplier and the problem of low-grade concrete has been resolved," Rogers said.

Robert M. Matyas, vice president for facilities and business operations, said that Pahl Construction Co. has done "a great deal of

excellent work on campus over the years, and is cooperating fully with us to correct this problem."

The new three-level press box is designed to accommodate as many as 65 print and broadcast reporters, eight television and film cameras, and 12 coaching staff from home and visiting teams. Two of the three floors of the new facility will be glass-enclosed.

Trustees to meet in NYC

The Executive Committee of the Cornell University Board of Trustees will meet Sept. 4 in New York City.

The committee will meet in open session at 2:30 p.m. in the Executive Faculty Room (A-126) of the William Hale Harkness Medical Research Building of the New York Hospital-Cornell University Medical Center, 1300 York Ave.

Also meeting in open session Sept. 4 is the Buildings and Properties Committee. That meeting is set for 9 a.m. in room M-109, the Vanderwerker Room, at Memorial Sloan-Kettering Cancer Center at 1275 York Ave.

Among items to be considered by the Executive Committee will be the requested budget for the state-supported colleges and a report on the impact of federal tax changes on higher education.

Networking

A Cornell Newsletter Published by Employees for Employees

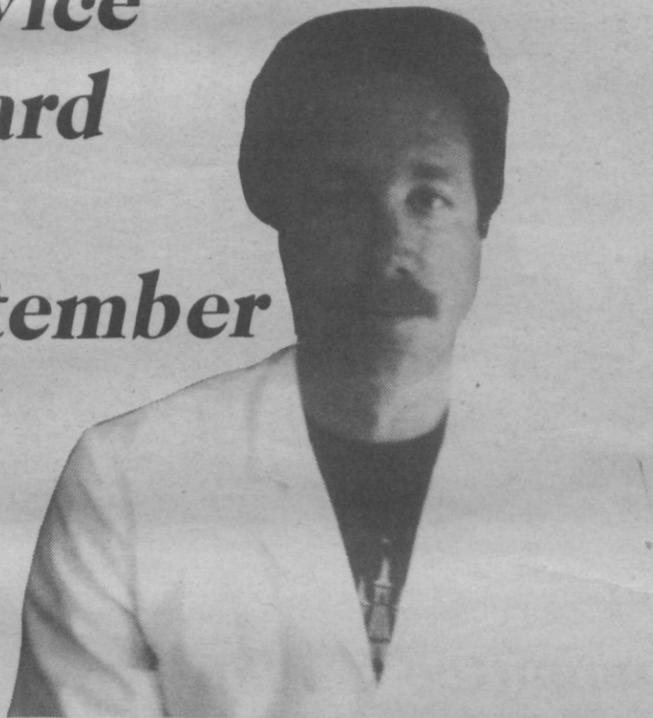
Volume 7, Number 9

Thursday, September 4, 1986

Dedicated Service Award Yonkers-Roosevelt Lab Director Honored

Dave Sondak Receives Dedicated

Service Award for September



Belmont, Aqueduct, Roosevelt, Yonkers, Monticello, Saratoga. Aside from all being racetracks in New York state, what else do they have in common? And what does horse racing have to do with Cornell University?

The Equine Drug Testing and Research Program is set up by Cornell in conjunction with the New York State Racing and Wagering Board. In addition to the staff at Ithaca, each New York state racetrack is equipped with a laboratory. Cornell employees perform many tests daily to determine whether or not drugs are present in a horse, both prior to, and directly after a race.

And while all the labs perform the same tests, there is one lab which has a distinct advantage over all the rest. The lab is the Yonkers-Roosevelt lab. The advantage? The leadership of our director, Dave Sondak.

Dave has been in the Equine Drug Testing Program since 1979. Hailing from Ulster County, New York, he began as a technician at Monticello. He subsequently came to the Yonkers-Roosevelt labs in July 1983, becoming the assistant director in June 1984. August of 1985 found Dave as our acting director and the following October he was officially named director.

Dave always manages to keep the hec-

tic pace running on an even keel. He's never too busy to roll up his sleeves and give an extra hand when needed.

Between identifying and confirming positives, working with the G.C. and HPLC, acting as a liaison between Cornell and the State Racing and Wagering Board, keeping up with the inventory, maintaining the staff of technicians, there is that occasional moment of (Oh no! Should I say it?) equipment failure! Instrumentation malfunction! No problem, Dave just gets out the toolbox and fixes the problem. Shortly everything is running smoothly once again.

His spare time often includes working at his strawberry farm in Ulster County, the Sondak Strawberry Farm in Kerhonson, New York. We can personally say it has some of the sweetest berries around. During season, Dave always brings his technicians a sample of the year's crop. Dave's other interests include watching almost any type of sport. Of course he is an ultimate New York Mets fan. He also enjoys playing tennis, camping, and hiking.

We feel that Dave Sondak is not only more than worthy of the Dedicated Service Award, he most definitely deserves it. We feel that if you had the time to get to know Dave, to work with him and to work for him, you would agree with us too.

Employee Day 1986 Looks Like the Best Yet!

Annual Chicken Barbecue and Cornell/Princeton Football Game Planned

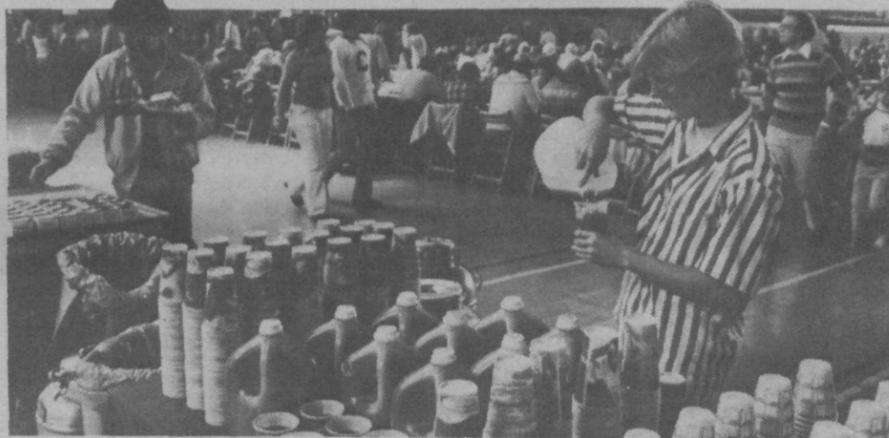
If you haven't marked your calendar for Saturday, September 20, 1986, now is the time. That's the day for the 12th annual Employee Day event for the Cornell community. Barton Hall is reserved from 3:30-5:30 pm for the barbecue following the Cornell vs. Princeton football game.

Last year's event was a huge success, as the accompanying photos show, and plans for this year include many of the favorite activities and attractions. Football, food, exhibits, music, and prizes are hallmarks of Cornell Employee Day, but the main attraction is the people. The Cornell community is a group like no other, and that is what makes this event unique.

The 1986 Employee Day committee is

finalizing the details that will make Employee Day '86 a success. At recent meetings they discussed the menu, entertainment, displays, gifts, and ticket sales. The committee agreed that the \$2.00 cost of tickets should not be raised. For \$2.00 employees get a meal, entertainment, prizes for the kids, and other events and attractions. The committee, according to one member, has succeeded in keeping the cost to the employees low without giving up any of the special events and attractions.

Photos continue inside.



Networking Board Says Thanks to Randy Shew

Randy Shew's involvement with Networking began when he said to Mary Jamison, 'If you want to get type set and get it pasted up at The Journal...'

Mary was the Networking editor at the time and Randy, the editor of the Cornell Chronicle and director of community relations, offered to help the Networking editorial board package their publication in a more time-efficient way.

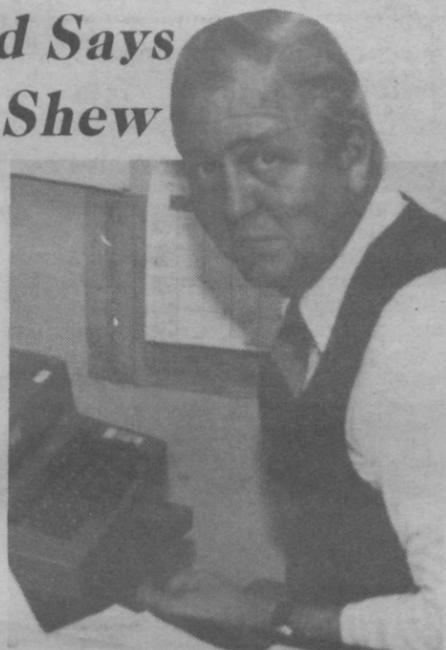
More time-efficient meant no more typing and pasting up of the newspaper after hours for many members of the board. This was in 1983 and in the three years since, we have been very grateful for Randy's suggestion.

Having the production of Networking done at The Journal was a terrific help and also paved the way for a much more professional and inviting look to Cornell's employee newspaper.

Randy retired on August 8th and the Networking board would like to thank him for his assistance and patience through the years and to let the Networking readers know of his contribution to the paper.

Randy's role was strictly a packaging one. He never interfered with editorial content or the changing of any wording. 'The great virtue of Networking is its independence,' Randy said recently as we gave him the stories for the last issue that he would work with us on.

'Collectively, the judgment of the Net-



working board has been pretty good,' he continued. 'It's been fun working with you -- even with the usual frustrations that come with working on any publication.'

Networking would like to take this opportunity to thank Randy for his time and patience -- those frustrations were always worked out with patience-- and wish him the very best in his retirement.

Randy, we'll miss you and want you to know how much we've appreciated your help and interest in our publication. Thanks very much.

Employees on the Go - Promotions and Transfers for July

Congratulations to the following employees on their recent promotions or transfers.

NAME	DEPARTMENT
Corrine Blanchard	Accounting
Judy A. Burkhard	Academic Personnel
Debora J. Estey	Veterinary Administration
Randy Faber	Hotel Administration
Abraham Gadsden	Unions & Activities
Bonnie J. Griffith	Residence Life
Terry L. Hamilton	Hotel Administration
Jill B. Howland	Investments
Patricia A. Jones	Applied Physics
William Kaminski	Residence Life
Miriam Lane	Health Services
Elaine LaRocque	Computer Services
Nancy H. Meislahn	Admissions
Gerald J. Menotti	Health Services
Antonio Morrow	Hotel Administration
Richard Mosher	Residence Life
Robert Mosher	Hotel Administration
Deborah G. Ostrander	University Counsel
Sharon Palmer	Hotel Administration
Mary E. Patterson	University Libraries
Patricia I. Place	Graphic Arts
Mary T. Ritz	Human Ecology
Marie C. Robison	Dining Services
Kathryn H. Rutz	Health Services
Elaine E. Saxton	International Studies
Linda M. Schmidt	Financial Aid
Janice Turner	COSEP
Jacqueline A. Wright	University Development

CRC News

September 13th Date for
CRC Park Work Party

CRC PARK WORK PARTY: September 13 is the date for the next park work party. We need all the help that is available. Plan on donating some of your time and energy! Contact the CRC Office if you can help or just show up at the site on September 13th.

CRC FIFTH ANNUAL GOLF TOURNAMENT: This event will be held on Sunday, September 14 at the Dryden Lake golf course. It is a captain and crew event and you sign up your team of 4 people when you register. The entry fee is \$22 per person (\$27 for nonmembers) and includes 18 holes of golf, greens fees, coffee and donuts, light lunch of a sandwich and beverage, steak dinner, and prizes. Carts may be reserved by calling Dryden Lake directly. Time is limited, so call today.

DEEP SEA FISHING: Another great fishing trip is planned for October 3-5, 1986. The price is \$95 per person (add \$10 for nonmembers) and includes transportation, fishing all day Saturday, bait and tackle, motel on Saturday night, beer and pop, and snack on the bus and boat. It's a great time. Why not join in the fun? Contact the CRC Office today.

Plans are being made for a shopping spree in November. We know that you'll be wanting to spend your Christmas Club

money! The trip will either be to the Reading, PA area or the Utica, NY area. If you are interested, please let us know if you have a preference of which mall to go to. The CRC Office number is 5-7565.

WALT DISNEY WORLD: This trip looks to be a great success. Sign ups are going well so you had better act quickly if you would like to join in. The prices are \$575 for adults, \$433 children 12-17, and \$316 for children ages 3-11. The trip includes roundtrip air transportation from Ithaca to Orlando, seven days and six nights at the Las Palmas Inn (close to restaurants and shopping), three days at Walt Disney World, a New Year's Eve event, and a farewell party here in Ithaca prior to your departure. A deposit of \$100 per person is required when signing up. Final payments are due by October 31st.

Work is beginning on the CRC park. Shown is Jack Prince grading the site as Harry Dickson and Ray Nobles watch. A work party is scheduled for September 13th to begin construction of the pavilion.



Focus on the Employee Assembly

EA Employee Education Committee Update

by Esther Roe, Gannett Health Center. As an Employee Assembly nonexempt member and also the co-chair (with Eva Desmond-Lugo) of the Employee Education Committee, I would like to share with you a preface to a survey that was conducted by this committee and written by Michael Moynihan. It explains what our committee can do for you, the Cornell employee.

The Employee Education Committee was established by the Employee Assembly as a result of concern by Cornell employees regarding educational opportunities. The current state of extramural education is characterized by some contradictions and confusion. The future

state is open to questions of effectiveness and efficiency.

Cornell University currently offers a wide variety of courses to its employees including among others: University Personnel Services workshops and seminars, regular course offerings, I & LR extension courses, and Experimental College programs. The University also hosts courses offered by TCCC and Syracuse University. Publicity for these courses is almost as random and wide-ranging as the courses themselves.

The current system requires time away from work, with permission of a supervisor for almost all extramural coursework and for University-sponsored

workshops and seminars. This can lead to friction and frustration. For example, situations arise where release time results in an inconvenience to the department, or where courses are career-related but not job-related and, therefore, do not warrant release time.

Although the interests of the University and of the employee frequently coincide when it comes to matters of continuing education, that is not always the case.

There are issues of responsibility and economics. Cornell's land-grant status carries responsibilities to the nearby community as well as to the state. In the next decade, Cornell will be expanding its

facilities to almost double the real estate value of pre-1980 structures. Extramural education may be a way to simultaneously serve the local community and improve the efficiency of the new facilities.

The Employee Education Committee has just changed status from a subcommittee of the Personnel Policy Committee of the Employee Assembly to the standing committee. With this we have developed a charge which is to serve the employees of Cornell, and the local community in furthering their education. If you would be interested in serving on this committee or have any questions please call me, Esther Roe, at 255-5072.

Improvements
in Employee
Benefits

The maximum amount of dependent coverage for a covered spouse has increased from \$20,000 to \$50,000. This change was effective on July 1, 1986 at no additional cost to employees who are participating in the voluntary supplemental and dependent coverages.

LONG TERM DISABILITY (LTD)
Effective July 1, 1986, the biweekly deduction amounts for statutory and cooperative extension employees decreased. The new contribution schedule is listed below:

Salary Range	Employee Biweekly Deduction
Under \$10,000	\$0.90
\$10,000 to \$11,999	1.35
\$12,000 to \$14,999	1.80
\$15,000 to \$19,999	2.45
\$20,000 to \$24,999	3.30
\$25,000 to \$29,999	4.13
\$30,000 to \$34,999	4.95
\$35,000 to \$39,999	5.78
\$40,000 to \$44,999	6.60
\$45,000 to \$49,999	7.43
Over \$50,000	8.25

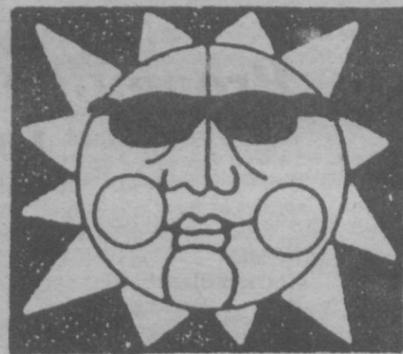
Coverage is provided for all eligible endowed employees at no cost.

Employees of the statutory colleges participate in LTD until they are vested and therefore eligible for disability benefits under the New York State Employees Retirement System or the Federal Civil Service Retirement System. Since the Optional Retirement Program (TIAA-CREF) provides no disability benefits, LTD participation by statutory employees under this program is mandatory.

If you have any questions, contact Employee Benefits (endowed) at (607) 255-3936 or Statutory Employee Benefits (statutory) at (607) 255-4455.

Take Charge of Your Health Shades of Summer

Sunglasses are more than a summer-time accessory - especially if you spend a lot of time outdoors or behind the wheel.



The sun's ultraviolet rays, which burn your skin, can also affect your eyes. Ultraviolet light can temporarily affect the

Ultraviolet rays are potentially damaging to the retina and may speed the development of cataracts.

ability of your eyes to adjust from day to night vision, according to Dr. Duane Atteberry of the American Optometric Association. Ultraviolet (UV) rays are also potentially damaging to the retina and they may speed development of cataracts.

There are no mandatory requirements regarding UV-shield labeling on sunglasses.

However, a good pair will filter out approximately 90% of ultraviolet light; better ones, 95%; and a few, 99% or 100%. You can usually ignore claims about protection against infrared light; that's heat radiation, which, under normal conditions, doesn't hurt eyes.

Choose medium or dark gray lenses for maximum glare-cutting with the least color-perception distortion. You'll want lenses dark enough to close out 50%-70% of visible light.

The National Society to Prevent Blindness suggests:

- Lens should be large enough to shield most angles of vision.

- Before purchasing, hold glasses up to the light to see if there are any imperfections in the glass or plastic.

Leadership Leads

Each Individual Has a Unique Contribution to Make

by George Peter
The following window sticker was observed on a car parked on campus recently:

I owe, I owe
So it's off to work I go
The sticker is cute but a little bothersome.

There is no denying that people work to pay the bills and to provide food, clothing, shelter and some of the superfluous of life. But how much more noble it is to work because each individual has a unique contribution to make.

This is not to say that a person should give his or her services away or to work for less than the value of those services. But it makes life much more exciting and pleasant to be aware that your contribu-

tion to the mission of Cornell University is special. This is especially true because we are convinced of the value of Cornell's product---education and research.

Come to work every day knowing that you are making a contribution and providing a special service to Cornell University.

We recently presented Gwen Campbell the Dedicated Service Award certificate. She is a perfect example of the kind of dedication that counts. We often hear

that Cornell is a great institution because of the faculty. This is true. And not to downgrade the faculty, but it is evident that all the other people are important too. The faculty brings in the contracts but Gwen keeps an inventory of millions of dollars worth of government-owned equipment. Without her strict attention to duty, the contracts would be taken away from Cornell.

Gwen is a very special person. So is everybody else at Cornell. Each individual makes a unique contribution to the total mission of the University.

Come to work every day knowing that you are making such a contribution and providing a special service to Cornell University. Go home with that same feeling. Life will be more fun.



On the Value of Stars, the Compass, and Shoreline

What's hard to take, but easy to give. Can cause us to cry, yet is needed to live. May come to us daily by friend or by foe. And in spite of it's bearer can help us to grow?

Examples? Johnny, hold your glass with both hands. Mary, can you please chew your gum without smacking? Bob, choke up on the bat a little. Lynn, you missed a beat. Sue, it's disrespectful to talk to your teacher like that. Paul, you've got body odor. Can you take more baths? Sharon, you're spending too much money. Mike, you need to use your time better if you want to improve your grades. Terry, you're using too much make-up; you look like a clown. Pat, your work has been slipping; you'd better pay attention more. Carol, stop complaining so much. Don, can't you ever be on time? Tom, you ought to call your parents more often. Mr. and Mrs. Smith, your children are unruly; can you discipline them better? Phil, you've been drinking a bit too much lately. Jean, don't you think you could stand a diet? Son, your shirt and tie don't match. Dad, must you work so

much? You're seldom at home any more. **CRITICISM.** What is criticism? It is an evaluation, whether intentional or unintentional, serious or comical, direct or indirect, loving or vindictive, specific or general, helpful or hurtful. Criticisms can be directed at things, places, ideas, purposes, or persons.

Each of us has given criticism; each of us has received criticism. We've benefited from it; and we've been harmed by it. We've helped others by being critical, and we've injured others through our

It takes courage to face and embrace criticism because some feedback is unpleasant, and is difficult to receive...

criticism. We need it to gain balance and grow, and so do others. We cannot escape it, and we cannot live without it. So, how can we better live with it?

Following are some thoughts on why we need criticism in our lives, why some

criticism hurts, and what we can do to give criticism more constructively, and how we can receive it more responsibly.

Imagine what it would be like to go through life without any feedback about the quality of our thinking, attitudes, or behaviors. Impossible! From the time we're toddlers we evaluate our efforts and actions for a variety of reasons -- not the least of which is to help us survive and thrive in life.

Without such analysis of our doing and being, we would have no direction, no purpose, no structure, no quality control to our existence. We would be like ships without stars or compass or shoreline. Without criticism, how can comparisons be made? And without comparisons, quality, right, wrong, better, best, good and bad are meaningless words.

We need criticism because we need to know how we are doing and how we might do better. We need to check our present state of being against our potential state of being. Are we in need of change? Improvement? Approval? Only our critics can tell us. They are our stars, our compass, our shoreline in life.

It takes courage to face and embrace criticism though, because some feedback is unpleasant, and is difficult to receive -- especially from

significant others. To consider criticism of ourselves means being willing to re-evaluate our self-image, and perhaps to experience a change in our level of self-esteem.

This can be scary and painful when the criticism is negative. We may feel vulnerable and diminished, bad about ourselves. And who enjoys that? Therefore, the tendency is to defend ourselves against any such challenge to our self-concept and self-esteem -- regardless of its merits. So we limit and control our interactions with others, pretending that we need no one else, and resisting any feedback which threatens us.

We give people the message: leave me alone; I'm fine the way I am. The problem is that we must live with others, and none of us is always, in every way, fine. So the choice is to struggle to avoid and resist criticism or to take advantage of it, giving and taking it constructively and reasonably. How can this latter choice be done?

In Part II next month, suggestions will be made for both giving and taking criticism more responsibly. Any concerns about criticism or the problems related to it may be addressed through your Employee Assistance Program (EAP) by calling 273-1129.

Fall Staff Development Seminars Scheduled to Start September 8th

A number of new programs will highlight the series of workshops and seminars to be offered to Cornell staff this fall by the Training and Development section of University Personnel Services.

New programs will include Team of Two, a unique program designed for managers and their right-hand staff members to attend together. Focusing on working as a team, managers and assistants will determine strategies to improve communication, productivity, and time management.

Mitch Bobrow, author of Habit Breakthrough, will offer a six-session program focused on helping you recognize the symptoms and the source of habitual patterns of unproductive behavior. Habit Breakthrough begins October 20.

Advanced Stress Management Tech-

niques offers an opportunity to review and expand upon stress management guidelines. It will offer additional techniques to help you minimize stress levels in both personal and professional situations.

REPEATED BY POPULAR REQUEST

A speedreading course will again be offered to staff who work with a large amount of reading material as part of their daily work. Also, Time Management for Managers and Supervisors and Making Meetings Work will offer useful techniques for those who conduct or attend meetings. Basic DC Electronics and Microprocessor Interfacing are available to staff who work with or have a strong interest in electronics. The Contact Calendar of Workshops & Seminars currently being distributed to staff will

also feature programs in communication and human relations, health and safety, supervisory management and work skills development.

TC3 COURSES ARE AVAILABLE

Tompkins-Cortland Community College (TC3) will offer five courses on campus this fall during evening hours. These will include Statistics, Principles of Accounting I, Composition, Technical Report Writing, and Introduction to Sociology. Information about prerequisites, costs, and other registration data can be obtained by calling TC3 directly at 844-8211.

COMPUTER COURSES TO BE OFFERED TO STAFF

Computer training courses will again be cosponsored by University Personnel

Services and Cornell Computer Services. Enrollment is limited and early registration is advised. A complete listing of courses, locations, dates, and times is available at B101 Carpenter, Dickson Ballroom, 340 Goldwin-Smith, G23 McFaddin, B21 McGraw, G23 MVR, B108 Sibley, B7 Upson Hall, G26 Uris, and 619 Vet Research Tower of the NYS College of Veterinary Medicine.

The complete listing of all Contact calendar programs offered this fall is also available on CUINFO, Cornell's computerized information service.

For additional information about workshops and seminars, as well as other educational opportunities available to staff, contact the office of Training and Development, 107 Day Hall, 5-7170.



Scenes from past Employee Days.

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1986 Looks Like the Best Yet!

Unclassified Ads

1. Please submit all unclassified ads to Networking Unclassifieds, 130 Day Hall - no phone calls please.
2. For our information your name and campus phone number MUST be submitted with ads. Otherwise your ad will be omitted.
3. All unclassified ads are free of charge to Cornell faculty, staff and students and will be printed in the order received as space permits.
4. Please limit your ad to 30 words or less. If an ad is longer than 30 words it may be shortened by the Networking staff.
5. Unclassified ads are for nonbusiness purposes only.
6. The deadline for the September 18th issue is September 8th.
7. If an error appears in your ad, please resubmit the ad to be published in next available Networking.

For Sale

- 1961 International dump truck, 5 ton, 2 spd. rear axle, extra motor and body parts, exc. cond., \$3000 OBO. Bernie 5-6143 or 564-9375.
- 1971 VW Super Beetle, sunroof, dependable, good cond., little rust, \$300 worth of recent repairs, asking \$800. Carol 5-7855 or 257-2088.
- 1972 Volvo 2 dr. sedan, automatic, rebuilt engine, good tires, much rust, dependable transportation, asking \$650. 272-8841 eves.
- 1973 Buick LeSabre, transportation special! 350 V8, 98K miles, engine just broken in, body okay, some rust, \$350 OBO. Carl or Jenny 277-5273.
- 1974 Chevrolet Monte Carlo, little rust, runs great, very reliable, new radiator and starter. Must sell, moving abroad, \$900. 277-1358 after 6pm.
- 1974 Dodge Dart, need repair for alternator, many good parts, exc. engine, new battery and more, must sell (or parts), very cheap. Jim 257-3068.
- 1975 Starfire, new timing chain, battery, water pump, rebuilt carburetor, body good, best offer (willing to trade). 564-9375.
- 1976 Mustang, 4 cyl., exc. cond., best reasonable offer. 564-9375.
- 1979 Chevy Impala, loaded, runs like a top, has never refused to start, new muffler and tailpipe, new alternator, very little rust, \$1200 firm. 594-2323 after 4:30.
- Macintosh, 400k external drive and Imagewriter printer, new cond., seldomly used, \$1700 OBO. Lee 5-5012 or 257-3068 eves.

Computer terminal with modem, good for connecting to mainframe or minicomputer, exc. cond., best offer. Ming 5-7655 or 272-0243.

Okidata 92 printer, used little, exc. cond., IBM compatible, \$300(Computerland price \$639; Netcom price \$449). 564-9375.

Okidata 82 printer, mint cond., little used, \$170 OBO with large supply of ribbons. Mark 257-5185.

Sofa-bed, \$100; fireplace doors, \$45; Bridgestone tires (size 155-13), two summer, two snow, \$40; GE toast-r-oven, \$15; Graco baby swing, \$20. 5-1728 or 539-7910.

RCA BW TV, \$45; Sanyo radio-cassette, \$25; GE iron, \$8; hair dryer, \$6; all in perfect condition, used little. 277-1358.

3 pt. hitch buzz saw, \$150; Amerigo truck-mount camper, sleeps 6, completely self-contained, \$2000 OBO; hay rake, \$200; elevator (22'), \$100. 564-9375.

1920's coal stove, enameled cast iron, convection style, \$150 OBO. Jeffrey 277-3496.

Drumset, Penncrest, 8 pieces; 3 tomtoms, 2 cymbals, snare, bass, seat, \$275. 257-5285.

Bike, Bianchi, Men's 21" with 24" 1 5/8 tires, new parts include brake pads and levers; brake cables, housing, shifters, cables, alloy bars, seat post, pedals, Avocet raving saddle, toe clips, bearing sets, Campagnola front derailleur, 14-18 gear cluster (10 spd), celeste green, scratched, \$150. 564-7006.

26" girls 10-spd bike, fenders, \$40. Carol 5-7855 or Bike, 10 spd, 27" wheels, 23" frame, like new, rarely used, \$75. 257-5285.

Cultured pearl necklace, 5-5 1/2 mm pearls, 20 inch length, 14k clasp, just res-

tung and knotted, \$140. Janet 5-1522.

GE 4 burner, electric range-oven, very good shape, 8 yrs old, \$50. Kathy 5-5439 or after 5:30pm Steve 273-5440.

Maytag natural gas dryer, not used much, good shape, asking \$125. Kathy 5-5439 or Steve 273-5440 (keep trying).

African musical instruments. Balaphone with 12 bars and talking drum with 9" head, about 72 leather strings. Both for \$200, neg. 387-6741 anytime.

Red rug, 9 x 12, fine cond.; yellow rug, 12 x 14, usable, \$20 each. Bookshelves, build your own shelves with wall brackets, and boards, 1/2 store price. Single bed with spring, mattress, bedboard, \$20 good cond. Mark 257-5185.

Ladies full length down coat, size small, worn one winter, original price \$140, asking \$70. 277-1730 after 5pm.

Bolans 1000 (10 HP) tractor, cast, new battery, snowblower, snow blade, 36" mower deck, extra cutting blades, weight, \$1300 OBO; Bassett sofa-bed, \$150; BW TV, \$50; large cardboard wardrobes, wood insert, \$20; woodstove (Franklin type), \$40; silver plated coffee service, \$125 OBO; rug, green tone, \$30 OBO. Must sell. Kathy 5-5439.

Freezer beef, all natural, grass and corn fattened, not overly fat. Sides or quarters avail. 5-2036 or 898-3438.

Horse reduction: weanling fillies and colts; yearling colts and well mannered, make offer. 564-9375.

Farm-raised veal by half or whole, \$2.69 lb., smaller portions at reasonable prices, order now for September 15 delivery. Cook Family Farm. 564-9375.

12 x 70, 2 bdrm New Yorker deluxe mobile home on Fall Creek, 1 mi from Vet School, front porch, rear deck, garden, \$10,000. Also Ross mountain bike, 2 yrs. old, good cond., \$200. 272-0547 anytime.

DAY CARE

Certified teacher will care for a small group of children in her home (near SPCA on Hanshaw Rd.). Semi-structured program, large yard, indoor play area. 257-1512.

For Rent

Apt., 220 Triphammer Rd., clean, quiet, 5 mi walk to campus, 1 or 2 persons, laundry, parking, on all bus routes. 5-5902 days, 257-0385 after midnight.

Housemate Wanted

Seeking grad. or staff female to share lovely 2 bdrm house 3 miles from Cornell. Country setting and fireplace, \$225 month utilities. Edith 5-4228 or 272-5768.

Free

Wood garage, frame work in good cond, you dismantle and take. 272-6890.

Wanted

16-18 foot lake canoe in good cond. Paul 5-9444 days or 277-0277 nights. Dodge mini van, 7 passenger, automatic. 844-9222.

Volunteers Needed

Dept. of Human Development and Family Studies seeks persons 25-50 yrs old for a study of common disappointments in life. Interviews last 15-20 minutes and volunteers will receive \$5. Call Dr. John Eckenrode 5-0834, 9-4 to arrange appt. Interviews confidential.

Will House Sit

Young couple leaving for Peace Corps 9/8/86 would like to stay in Ithaca until then. Local references. 539-7815.

Training Sessions Scheduled for Payroll Recordkeepers

Departmental payroll and personnel representatives are strongly encouraged to attend a training session on University policies which affect vacation and sick leave accrual recordkeeping.

If you prepare payroll vouchers or have responsibility for recording vacation and sick leave accruals for the nonacademic staff in your department, you should plan on attending one of the hour and a half sessions sponsored by the Endowed Payroll Office, Statutory Finance and Business Payroll Office and University Personnel Services. Representatives from these offices will be available for questions and answers.

Topics to be covered include procedures for maintaining, updating, and correcting accrual amounts for nonexempt staff, how accrual rates are affected by credited service calculation, how periods of extended leave should be reported to personnel / payroll, and what effects periods of extended sick leave have on the vacation / sick leave accruals.

The training sessions will be offered from 8:00 to 9:30am on August 27, 29, September 3, 5, 8, 10, 12, 15, 17, and 19th at Conference Room #1 at Robert Purcell Union.

For more information contact Training & Development section of University Personnel Services, 5-7170.

Canned Men

by Leona House
 Oh, all these men that come in cans, making promises without end, to shine floors, grubby doors, float in boats round toilet tanks
 disinfecting rank odors afloat from bank to bank.
 Lumber jacks swoop down too, powerful muscles abound to wipe up spills & I frolic around with Mr. Bubble in the tub.
 Arm & Hammers presence too, is felt with much ado.
 Cracker Jack gives me prizes which I find never fit my size.
 Guess who's coming to dinner tonight: the fried chicken king--- with his delight.
 We wine and dine with Thor & Big Red, Mr. Moto and Mr. Clean's bald head. Oh, these men that come in cans promise thrills and chills I cannot comprehend.
 I must rest from all this gaiety for an old lady like me--- it's too much to play & play, soon enough I'll have to pay. Finally they go, & I'm alone ---- to find Big Ben in my bedroom.
 It's now half past the hour, news is over pillows plumped, turn on the tube and, oh, No----- Here Comes Johnnie.

Networking Deadlines

1986 Deadlines

- September 8 for September 18
- September 22 for October 2
- October 6 for October 16
- October 20 for October 30
- November 3 for November 13
- November 17 for December 4
- December 8 for December 18 (holiday issue)

Editorial Board

- Donna Updike
- George Peter
- Margaret Seacord
- Catherine Fitzgerald
- John Bender
- Mary Ellen Jones
- Anna Moratz
- Dominic Versage
- Leona House
- Jim Kuehl
- Carol Thurnheer

UNIVERSITY PERSONNEL LIAISON

Laurie Roberts

PRODUCTION

Cheryl Seland

Attention Statutory Colleges Employees Empire Plan Clip-and-Save Phone Numbers

PHONE NUMBER:

QUESTIONS ABOUT: Pre-admission Review

- In Albany Area 465-6387
- In New York State 1-800-992-1213
- Outside of New York State (except Alaska) 1-800-628-6677

Coverage, Claim Forms, Cards, Other Questions

Statutory Employee Benefits 1-607-255-4455

Whether your Physician is a Participating Provider

- In New York State 1-800-537-0010
- Outside of New York State (516)348-5674 or (516)348-5678

Claim Problems

- Blue Cross (Hospital) In New York State 1-800-342-9815
- Outside of New York State (except Alaska) 1-800-428-4292

- Metropolitan (Medical—Major Medical) In New York State 1-800-942-4640
- Outside of New York State 1-800-431-4312

Health Care Help Line (8:00am to 5:00pm)

- In New York State 1-800-336-3696
- Outside of New York State 1-800-722-7789

Second Opinion

- New York City—Long Island 1-800-832-4650
- Other Areas of New York State 1-800-342-3726

Employee Calendar

Events of Particular Interest to Cornell Employees

Tuesday, September 9. Networking editorial board meeting, B-8 Roberts, 12 noon. All welcome.

Sunday, September 14. CRC annual golf tournament. Call the CRC Office at 5-7565 for more information.

Saturday, September 20. Employee Day. Cornell vs. Princeton game. Call Peg Landau at 5-6894 or George Peter at 5-5274 for details.

October 3 - 5. CRC deep sea fishing trip. Call the CRC Office at 5-7565 for more information.

December 29 - January 4. CRC Walt Disney World trip. Call the CRC Office at 5-7565 for more information.