# Cornell Chronicle

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Networking

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Thursday, June 26, 1986

# Biotechnology Groundbreaking Ceremony Is Friday

New York Gov. Mario M. Cuomo will join industry and university officials Friday, June 27, to mark the construction start for the university's biotechnology center. Vincent Tese, the state's director of economic development, also will take part.

Construction of the building will bring under one roof the research and technologytransfer functions of the industry-universitygovernment funded Cornell Biotechnology Program. The program of basic research has as its goal the transfer of new technologies to industry for development of new products in the agriculture, pharmaceutical, food, and chemical industries.

Representatives of the program's corporate sponsors will be on hand for the 2 p.m. ceremony in the atrium of Corson-Mudd halls. They include Leonard M. Baker, vice president for corporate technology at Union Carbide Corp., Amory Houghton Jr., chairman of the executive committee of Corning Glass Works; Philip Smith, president and chief operating officer of General Foods Corp.; and Leo J. Thomas, senior vice president and general manager of Eastman Kodak's life sciences division.

The biotechnology building will be the largest research facility on the Cornell cam pus and one of the largest capital projects in university history. About two-thirds of the facility's cost will be provided by a \$20 million allocation from the State of New York, and the balance by the university

The three-sided building and its 200-seat conference center will be located on Lower Alumni Field between two recently constructed buildings, the Corson-Mudd halls on Tower Road and Comstock Hall on Garden Avenue.

Slated for construction start this summer and completion in 1988, the facility will include administrative offices and research



Adult lake trout are reproducing in Lake Ontario for the first time since the 1950s, an ecological indicator of the improving health of at least one Great Lake.

A team of state, federal, and Cornell University scientists has trapped 75 "fry" this spring, the first known samples of lake trout reproduction since an international stocking program was begun more than a dozen years

That's good news for the Great Lakes Portfishing industry, valued at between \$4 billion and \$5 billion a year. Lake Ontario alone has as many as 300 charter fishing

The baby trout were retrieved off the north end of Stony Island in the Henderson Harbor area, according to Cornell fishery researchers Charles Krueger and Ellen Marsden, and Clif Schneider of the New York State Department of Environment

"This is a positive indicator that lake trout can survive and reproduce in Lake Ontario,' says Krueger, an assistant professor of fishery science in the College of Agriculture and

The DEC's Schneider knew that the adult lake trout were spawning in that area of Lake Ontario as early as 1981, and in 1983 he caught a single fry. But that was not enough to indicate that the trout population was bouncing back.

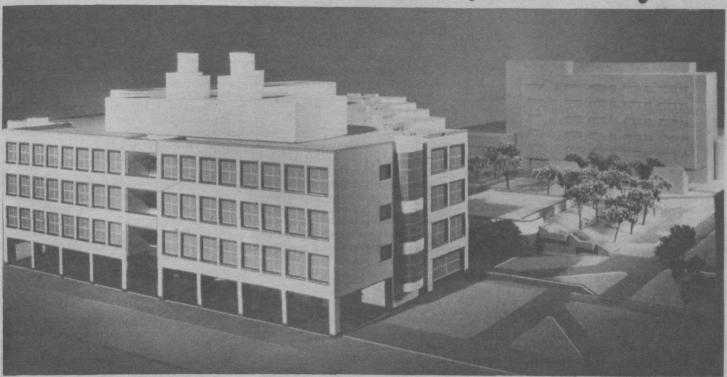
Trapping 75 fry this year was the positive sign the three scientists and their colleagues

had been seeking. Lake trout catches in Ontario peaked in the early 1920 and remained stable until about 1950, when fishery scientists began noticing a stunning decline in the number of

this popular species. U.S. and Canadian officials began looking into the problem, but by 1960 most authorities considered lake trout to be extinct in Lake Ontario.

Efforts to restore the once native species began in the early 1970s when New York State, the U.S. Fish and Wildlife Service, and Ontario provincial agencies began stocking the lake with trout yearlings.

They hoped to reverse the trend blamed on a combination of over-fishing, predation by sea lampreys, and a degrading habitat, the result of runoff from the Great Lakes water-



Model shows the new biotechnology building in the foreground on Alumni Field, looking west with Academic II in the background.

laboratories for the Cornell University Biotechnology Program. This program, initiated in 1983, is composed of the industrysponsored Biotechnology Institute and the Center for Advanced Technology in Biotechnology (Agriculture), which is funded by the New York State Science and Technology Foundation.

Also in the five-story, 171,000-square-foot structure will be offices and laboratories for 33 faculty members in two Cornell academic units whose research is closely related to the biotechnology program's mission: the Section of Genetics and Development and the Section of Biochemistry, Molecular and Cell

Office and research laboratory spaces for six industrial scientists also are included in the new facility. These resident scientists will be from the corporations supporting the Cornell Biotechnology Institute. (Current corporate partners are Eastman

building to serve about 350 people, including 150 graduate students and research asso-

The new building will contain several centralized services for use by researchers from Cornell and the collaborating industries, including a flow cytometry laboratory, monoclonal antibody and plant tissue culture facilities, DNA synthesis equipment, and amino acid analysis and protein sequencing facilities. An electron microscope complex,

Continued on Page 8

# Will \$20 Million Drilling Project in Sweden Test Thomas Gold's Theory on Oil and Gas Deposits?

Kodak Co., General Foods Corp., and

Union Carbide Corp.) Planners expect the

By MARK EYERLY

A \$20 million Swedish drilling project set to begin July 1 could do for geologists what Galileo's telescope did for astronomers nearly 400 years ago — prove them wrong.

Geologists think oil and gas come from the

decomposition of living matter. But the Swedish well is certain to find natural gas that has nothing to do with biological decay, says the Cornell University astronomer who is directing the project.

"Calling them fossil fuels is a misnomer," says Thomas Gold. "Almost all of our oil and gas have nothing to do with organic decay; they've been present deep inside the earth ever since the planet was created, and we're not even close to running out.'

Galileo's claim that Earth was not the center of the universe was such a radical departure from accepted thought that he was forced to recant by the church. Gold does

not face similar persecution, but his ideas are facing criticism from geologists who claim that the astronomy professor is ignoring essential information.

"If Gold finds gas in Sweden, all it means is that he has found a reservoir. It says nothing about where it came from," says Allan Gibbs, an assistant professor of geology at

Geologists maintain that hydrocarbon fuels are produced this way: Carbon dioxide from the planet's atmosphere enters the food chain through photosynthesis. As living matter dies and decays, some of it is incorporated into sediments. As the sediments are buried by succeeding layers, the organic matter, under increasing pressure and temperature, gradually breaks down into simpler hydrocarbons. Some of these hydrocarbons accumulate in buried reservoirs of gas or oil. More than 99 percent of the world's

known oil and gas reserves are in sedimentary rock and they originated from biological sources, geologists say. To them, the explanation is obvious.

To Gold, the explanation is obviously inadequate. Oil and gas are found in sediments because that is where geologists look, he says. Why should the hydrocarbons on Earth come from biological decay when hydrocar-bons exist on other planets where there has been no plant or animal life?

Instead, Gold suggests that hydrocarbons were incorporated deep within this planet during its formation 4.5 billion years ago and have been migrating toward the surface

During the next 12 months, Gold and the Swedish State Power Board will drill 15,000 feet into mostly granite rock in an attempt to find deep-Earth gas where they say there is Continued on Page 8

# Summer Program Gets into Full Swing Next Week

See related stories on Page 2

Cornell Summer goes into full swing on Monday, June 30, with a welcoming reception on the Arts Quad from 5 to 6:30 p.m. A dance performance by Kei Takei's Moving Earth at 3 p.m. on the Quad and the presentation of "Asinamali" by Johannesburg's Market Theater in Statler Hall at 8 p.m. will round out the day's activities. See other stories on Page 2.

Throughout the summer there will be concerts, lectures, and a variety of performing arts, free and open to the public. All events are sponsored by the Division of Summer Session, Extramural Study, and Related Programs, unless otherwise noted.

Every Tuesday and Thursday the Arts Quad will be the place to take advantage of long summer evenings. The Ithaca Concert Band opens the Outdoor Concert Series at 6:30 p.m. Tuesday, July 1, before the evening's Independence Day festivities, sponsored by the Community Fireworks Committee, begin at Schoellkopf Field. Bristol Mountain Bluegrass appears on July 3 and the rock group Adult Western performs on July 8, both at 7 p.m. on the Quad.

The Cornell Summer Concert Series presents The Sokol Salmirs Duo, violinist Rolfe Sokol and pianist Michael Salmirs, at 8:15 p.m. Monday, July 7, in Statler Hall auditorium. The program will feature Karel Husa's Sonata for Violin and Piano (1978) to inaugurate a year of special presentations honoring the renowned composer's 65th birthday.

Other selections on the program include Two Dances in Olden Style by Lillian Fuchs, Sonata for Violin and Piano by Claude Debussy, and Rumanian Folk Dances by Bela Bar-

Another musical event is the Festival of Traditional Jazz, now in its third year. The Climax Jazz Band, Nick Palumbo's Dixieland Update, Bearcat Jazz Band, Peggy Haine and the Lowdown Alligator Jass Band, and Joe Cavallaro's Dixieland Jazz Band will perform from noon until 6 p.m. Saturday, July 12, on the Arts Quad

The first Wednesday of the Cornell Summer Lecture Series, July 2, will present Joanne Tanner of The Gorilla Foundation. Tanner will speak about communicating with gorillas through sign language in 'Crossing Cultures with Koko." The following week, July 9, Kenneth Blanchard, author and founder of Blanchard Training and Development, will advise on "Putting the One Minute Manager to Work in Your Life." Both lectures will be at 8:15 p.m. in Statler Hall auditorium.

This week's hour-long Sandwich Seminar will address "The Quest for Harmony between Work and Family: Whose Problem Is It?" at noon Thursday, July 3, in 213 Ives Hall. Sara L. Rynes, assistant professor of

industrial and labor relations, will analyze the problem of integrating work and family life, assess current answers to the problem, and offer potential solutions in the and government sectors as well as in one's personal and family organization. Next week's topic will be "Agricultural Changes in New York State: Impact on Families and Communities.'

The Sunset Concert Series, sponsored by Willard Straight Hall and, in part, by the Summer Session, begins Thursday, July 3, featuring Stephanie Bibbie and Fe Nunn on the Straight Terrace at 7 p.m.

Free outdoor screenings of silent comedy classics will tke place at 9 p.m. Sundays in Anabel Taylor Hall courtyard. "Flesh and the Devil" with Greta Garbo and "Behind the Screen" with Charlie Chaplin will be shown July 9, accompanied by live electronic music. In case of rain, the movies will be shown in the Anabel Taylor Hall auditori-

On three days each week, lunchtime activities will begin at noon: the Odyssey Storytellers on Mondays, the Great Books Seminars each Tuesday starting July 1, and campus garden tours on Wednesdays. Also on Mondays, tours of Uris Library will be given at 4 p.m. and campus architecture tours will be conducted at 6:30 p.m.

A copy of the calendar of events may be obtained from the Summer Session office at B12 Ives Hall, telephone 255-4987.



Cast members of the Market Theatre Company's production of "Asinamali" include (from left) Solomzi Bhisholo, Bhoyi Ngema, Bongani Hlophe, Bheki Mqadi and Thami

### 'Asinamali' to Play June 30

"Asinamali!" a play written and directed by South African Mbongeni Ngema, will be presented by Johannesburg's Market Theater Company at 8:15 p.m. Monday, June 30. The performance, to take place in Cornell's Alice Statler Auditorium, is free and open to the public.

Playwright Ngema starred in and co-wrote the award-winning Woza Albert, which recently toured the U.S., Britain, and Germany. Like the earlier work, "Asinamali!" is entertaining without sacrificing the power and impact of its political message.

Through a mixture of song, dance, storytelling, and mime, the five Zulu actors dramatize the frustration and despair of blacks in South Africa. The characters are prisoners, each with a colorful history, who recount and recreate the events that led to their arrests

After their performance at the Chicago International Theater Festival, The Chicago Sun-Times said, "The genius of 'Asinamali!" is that it bears not an iota of self-pity, or hopelessness, or futility. Instead, there is an unquenchable life-force at work on stage." The play takes as a focal point the distur-

bances in the Lamontville township during 1983 which were caused by rent increases. Protestors, led by Msize Dube-who was eventually killed for his actions—rallied to the cry "Asinamali (We have no money)." The incident provides a catalyst to express daily and more widespread grievances caused by other government actions such as body searches, forced removals, evictions, and the separation of families through influx con-

Humor and subtlety combine with energy and raw emotion in a production which is both funny and deeply affecting, while providing an insightful glimpse into life under apartheid. As one South African reviewer wrote, "Ngema does not reflect the whites simply as evil monsters and the blacks as defenseless victims. He mocks everyone without exception. An important perspective evolves from this balance. Black and white face one another as humans, both worthy and unworthy...'

The performance is one in a series of free events open to the public, sponsored by Cornell University Summer Session.

## 'Moving Earth' on Arts Quad

Choreographer Kei Takei and her company Moving Earth will perform at 3 p.m. Monday, June 30, on the Cornell Arts Quad. The performance is free and open to the pub-

The choreography of Kei Takei defies classification, although it is most frequently described as avante-garde modern dance. Moving Earth's dance art is comprised of simple, everyday movements such as walking, crawling, running, and embracing. The

movements in pieces such as Wheat Fields, Vegetable Fields, and Pinecone Field interpret the tasks and ritual of daily life and reflect Takei's love and respect for people at work. The dancers also labor-in a very real way. The Village Voice said, "If these dancers were paid by the bruise, they'd all be

The Ithaca performance will consist of two selections from Takei's lifework, an epic dance callled "Light," which is made up of twenty-two separate but interconnected parts. "Light, Part 11 (Stone Field)" and 'Light, Part 18 (Wheat Fields)" will be performed.

Takei studied classical ballet, modern dance, and Japanese classical dance in Tokyo, where she was born. In 1967 she came to the U.S. on a Fulbright Scholarship to study at the Juilliard School. After Juilliard, she found the opportunity to experiment at the Henry Street Settlement, where she began to choreograph for a small group. This group formed the nucleus of Moving Earth.

The company has received many grants and awards, including ones from the National Endowment for the Arts, the John Simon Guggenheim Memorial Foundation, and the Creative Artists Public Service Program. Moving Earth's 1985-86 tour includes their first New York State Outdoor Season, which is made possible, in part, by a grant from the New York State Council on the Arts.

Her original and provocative performances have been praised widely, from Le Monde of Paris to The New York Times.

In case of rain the performance will be held in Kauffman Auditorium, Goldwin Smith Hall.

This is one in a series of free events open to the public, sponsored by Cornell University Summer Session.

**Medical Lecture Series** Will Be Given July 14-18

Central New Yorkers will have a rare opportunity to obtain the most up-to-date medical information available when 10 Cornell University Medical College faculty members give a series of lectures at the Ithaca campus

The lectures, designed for a non-physician audience, will discuss the latest research applied to the prevention and treatment of illnesses and conditions such as arthritis, heart disease, Alzheimer's dementia, and AIDS. Question-and-answer sessions will be part of

The public is invited to attend the lectures. Pre-registration is required. A \$30 fee covers the cost of program materials for the entire series. A \$10 fee will be charged for one day's presentations, consisting of two lec-

The Update Your Medicine program is being directed by Dr. Lila A. Wallis, clinical professor of medicine at the Cornell Medical College. The program was offered in Ithaca for the first time last summer and was well attended and enthusiastically received.

As a physician, Wallis applies a literal translation of the Latin term for doctor, which means "teacher."

"I feel that the responsibility of a physician is to educate their patients so that they

become partners in their care," Wallis explained: She will conduct the presentation on 'Self-Help—Do It Yourself: Role of the Patient in Breast, Pelvic, and Genitorectal Exams." In addition to the medical update program, Wallis has also designed and directed the Women's Health Day programs at the medical college.

Topics throughout the week-long series are designed to be of interest to men and women of all ages. Dr. Stephen S. Scheidt, professor of Clinical medicine, who gave last year's talk on "Prevention of Heart Diswill again offer the most up-to-date information on this topic. Coronary heart disease, which accounts for 51 percent of deaths in America, is a disease with major risk factors that people can control, according to Scheidt.

The most recent discoveries in AIDS research, will be examined during a session by Dr. R. Gordon Douglas, chairman of the Department of Medicine. Other topics include nutrition, organ transplantation, and cigarette smoking.

More information including a complete schedule of presentations can be obtaind from Update Your Medicine, Cornell University, Box 12, B12 Ives Hall, Ithaca, N.Y. 14853, or by calling 255-7259.



Joanne Tanner and Koko in conversation.

On Communicating with a Gorilla

# 'Crossing Cultures with Koko'

Joanne Tanner of The Gorilla Foundation will speak about "Crossing Cultures with Koko" Wednesday, July 2, at 8:15 p.m. in Alice Statler Auditorium, in the first of the Cornell Summer Lecture Series. The lecture is free and open to the public, sponsored by Cornell University Summer Ses-

Tanner will discuss her work communicating with a 13-year old gorilla, Koko, through American Sign Language, the hand language of the deaf. Tanner and other research scientists use more than 500 signs to communicate with Koko.

cture on human-animal communication, Tanner will discuss not only what Koko has learned, but also what humans have learned through Koko about gorillas. their personality, intelligence, and modes of communication. For example, Tanner and others who work with Koko have discovered a sentiment which they dubbed "gorilla pride." A reporter once asked Koko "Are you an animal or a person?" Koko answered, "Fine animal gorilla."

Adding to a lifelong interest in anthropology and primatology, Tanner spent a year at DeAnza College learning American Sign Language in order to work with Koko. Since 1981 she has been an assistant to Dr. Francine Patterson, founder of The Gorilla Foundation, which is located outside San Francisco. In addition to her research with

Koko, Tanner is a first violinist for the San Jose Symphony Orchestra.

Describing her relationship with Koko, Tanner told the Los Altos Town Crier, take elaborate notes, fill in sheets and reports. Sometimes I'm like a baby sitter. At other times we're like two girlfriends talking about the things that matter to us."

Tanner's published observations in Gorilla, The Foundation's journal, concern such topics as Koko's reading and counting, her invented games and fantasy play, her reactions to unusual foods, and human error in interpreting her requests. Through these studies Tanner strives to accumulate information about both animal intelligence and how gorillas live in the wild.

Koko became somewhat of a media celebrity as the gorilla who loves kittens. According to National Geographic Magazine, the January 1985 cover story about Koko and her kitten, All Ball, "provoked more immediate reaction than anything else the Geographic has published in its almost one hundred year existence." Koko has also been featured in Time magazine's "People" section and on Newsweek's "Newsmakers"

Gorillas are seriously threatened through out\_their habitat in Africa, and experts estimate that they could be extinct within the next 15 years.

# Cornell Chronicle

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### Welcome: Balloons, Ice Cream, Music

Ice cream, balloons, and the swing of Walt Amey and the Hepcats will welcome the Cornell University Summer Session at a reception for the entire Cornell community on Monday, June 30, from 5 to 6:30 p.m. on the Arts Quad. All faculty, staff, and students are invited to attend.

"We wanted to give everyone an opportunity to meet and get acquainted with each

other in a relaxed and enjoyable atmosphere," said Charles Jermy, acting dean of the Division of Summer Session, Extramural Study, and Related Programs.

A tent will be set up with refreshment tables where free Cornell Dairy ice cream and fruit punch will be available. The raindate for this event is Tuesday, July 1.

# 'Heimlich Maneuver'

### Cornellian, Class of '41, Just Wondered Why People Were Choking to Death

By MARK EYERLY

Henry Heimlich wants you to know it's not true that he used to wrap his arms around pretty girls and wait for them to choke, just so he could give them a squeeze.

And he didn't loiter in restaurants, waiting for somebody to gag on dinner so that he could try out his latest idea, dropping the body and walking away if his attempt failed.

All he did was ask himself a simple question. Why, he wondered, are people choking

The answer: Nobody knew how to effectively dislodge objects from the throat. Heimlich's contribution: the technique that bears

Check your dictionary. If it's a reasonably new edition, somewhere between "height" and "heinous" are the words "Heimlich ma-

"People ask me how it feels to be immortal," says the 66-year-old surgeon. "But when I look in the dictionary and see my birth date, a dash, and a blank, it gives me a tremendous sense of mortality.

"Plus," he adds as a broad grin starts to turn into open-mouthed laughter, "giving my age absolutely ruined my social life.'

In a world where taking one's self too seriously is as common as shade in a forest, Dr. Henry J. Heimlich — "Hank," according to his Cornell Class of '41 reunion pin is a radiant beam of sunshine.

He'd rather get to know people before they recognize who he is - hear that, American Express - because they tend toward silence and awe when they realize their conversation companion is credited with saving more than 10,000 American lives and countless others around the world.

He moved inconspicuously about Cornell's campus for his 45th year reunion in a white fishing cap and a nondescript jacket, each proclaiming in red his graduation year, and a pair of soiled Nike sneakers. He offered to twirl a baton, if one could be found, for a television cameraman, just as he did as drum major of Cornell's Big Red Marching Band 45 years ago.

This is not to say that Heimlich takes his work lightly; the good doctor is diligent. Saving choking victims and soldiers with chest wounds, helping emphysema sufferers breath easier, pursuing a cancer treatment, promoting peace and corresponding with world leaders — he pursues all with remarkable perseverance, enthusiasm, and optimism.

"I see a purpose in my life," Heimlich

says simply.

In the 1950s, he performed the first successful replacement of an internal organ when he used part of a stomach to form a new esophagus. A valve he developed for draining the chest was used extensively in the Vietnam War and is common in chest sur-

The discovery that made him a household name from Boston to Beijing came in 1974, three decades after earning his Cornell medi-

Wondering why choking was the sixth leading cause of accidental death, the chest surgeon investigated the recommended actions. One was a back slap, the other was prying material loose by putting your fingers in the victim's mouth. Both were doing more harm

"I began wondering how you could push it out," Heimlich says. He went through 100 scenarios. Step on their backs. Push them against a wall. He experimented on dogs. He practiced on people, measuring the force of air he could produce in the throat. The key was to find something simple that anybody could do without special devices - a choking victim can die within four minutes.

When he found the answer, Heimlich was so confident that he wrote a professional journal article about it, asking people to try the technique and let him know what happened. Within a week, a Seattle man who read about the maneuver in a newspaper used it to save his neighbor's life.

The Heimlich maneuver: stand behind the victim and wrap your arms around his waist; place your fist thumb side against the victim's abdomen, slightly above the navel and below the rib cage; grasp your fist with your other hand and press into the victim's abdomen with a quick upward thrust; repeat several times if necessary.

No special training required; a 4-year-old boy once used the maneuver to save his baby

Just this month, the Heimlich maneuver was endorsed by the American Red Cross and the American Heart Association as the only treatment for choking, and as a treatment for drowning victims. The back slap is gone for good.

"If every doctor in the world knew the Heimlich maneuver, that wouldn't help the mother at home when her child is choking and is going to die in four minutes," says the man who invented the maneuver but who has never used it in an emergency situation. "Simplicity is the key. We inoculated the



In commett Blessman ! ]

Dr. Henry Heimlich gestures as he talks with a television reporter during Reunion.

world with knowledge."
"In medicine," he adds, "you have to have compassion. You have to worry so much about why that person is not doing well. Then you have to ask the simple ques-

Heimlich, president of the Heimlich Institute and professor of advanced clinical sciences at Cincinnati's Xavier University, is still asking the simple questions. Among his latest: Why are people with breathing problems tied down to oxygen tanks? After all, 90 percent of the oxygen that is pumped through plastic tubing into a patient's nose comes back out the nose and mouth. And the size of the oxygen tanks keeps patients

His answer includes a new tube the size of pencil lead that can be inserted into the windpipe in a 10-minute procedure and held in place by a jewelry chain. Now, connected to a portable oxygen tank, an emphysema victim can go out to dinner without straining with each breath because the oxygen is pumped more directly into the lungs.

Nearly 300 emphysema victims have received the device in the past six years; last year, the federal government approved the device for distribution. Just last week, Heimlich used the device to treat a 12-year-old with cystic fibrosis.

Still another question: Do so many people have to die from cancer?

Heimlich's answer is no. He thinks giving malaria to cancer patients may kill cancers because cancer cells do not thrive in high

body temperatures. After treatment, the malaria is cured with medication. A New Jersey foundation has supported his research and Heimlich is seeking funds to establish a clinic to treat patients.

And the biggest question of all: Do the United States and Soviet Union have to be enemies? Heimlich's answer is an emphatic

"Peace will come through trade," says the doctor who has corresponded with former Egyptian President Anwar Sadat and other government leaders about achieving peace. 'The primary factor in any war is economics. So, let's increase our trade with the Sovi-

"My approach is built on the self-interest of human nature," he adds.

'If we are making profits from peace, and they are making profits from peace, why go to war? The naive approach is to build more and more nuclear weapons. I'm practical about this. I'm not a dreamer.'

Heimlich, who criticizes the direction of the world and the follow-the-leader complacency of diplomats and political leaders, will admit to pessimism on only one thing: time.

"Will we," Heimlich asks, "act soon

That is one question for which he does not know the answer. But if conviction and perseverance are enough, the next Heimlich maneuver will see this father of four wrapping his arms around Earth's equator, grasping his fist, and thrusting in and up, forcing the world to cough up its blockages to peace.

### High-Yield Wheat to Be **Unveiled Soon**

A new wheat variety capable of producing more grain than any existing wheat grown in New York state will be unveiled July 9, when representatives of the seed industry in the region will gather here for a meeting.

The occasion is Cornell Seed Growers' Field Day, an event designed to bring members of the seed industry up to date on Cornell's efforts to improve crop varieties and on major trends affecting the industry.

Some 100 seed growers, dealers, and processors, and other members of the industry from throughout the Northeast are expected, according to William D. Pardee, professor and chairman of the Department of Plant Breeding and Biometry.

Sponsored by the College of Agriculture and Life Sciences, the outdoor event will be staged at the university's research plots adjacent to the New York State Seed Improvement Cooperative on Route 366.

Participants will see Cornell's newest wheat, named "Geneva," now being readied for commercial use for the first time this fall, along with promising new strains of oats, barley, and forage crops. The performance of two new alfalfa varieties - "Oneida VR" and "Mohawk" — also will be shown and discussed. Developed at Cornell, Oneida VR has strong resistance to the fungal disease Verticillium wilt; Mohawk boasts a high degree of resistance to anthracnose, another fungal ailment. Insect and disease problems affecting some of the crops this year also will be discussed.

The tour-discussion program begins at 10 a.m. and ends at 3 p.m. Participants are asked to gather at the seed barn of the New York Seed Improvement Cooperative.

For more information about the field day rogram, contact Pardee at 253 Emerson Hall or call 255-1653.

# USDA Honors Roelofs, Bauman

Two Cornell University scientists — one a pioneer in the use of bovine growth hormone to boost production efficiency of dairy animals, and the other a pioneer in the use of insect sex attractants for pest management have been honored by the U.S. Department of Agriculture.

Dale E. Bauman, professor of nutritional biochemistry in the College of Agriculture and Life Sciences, received a Superior Service Award. Wendell L. Roelofs, the Liberty Hyde Bailey Professor of Insect Biochemistry at Cornell's New York State Agricultural Experiment Station in Geneva, was the recipient of a Distinguished Service Award, the highest honor given by USDA. They were cited for outstanding achievements of major significance to the USDA mission and to the nation as well as their contributions to their

areas of specialization.

Bauman has focused his research on the regulation of nutrient utilization in dairy animals, which has led to dramatic increases in the efficiency of milk production through the use of bovine growth hormone. The growth hormone technology is expected to have a major impact on animal agriculture in the U.S. and in other parts of the world.

Roelofs was recognized for his research contributions to the biology of insect sex attractants known as pheromones that are produced by female insects to attract males. His work over the past two decades at the Geneva station in isolating, identifying, synthesizing, and using insect pheromones has led to jor agricultural crops.

# Gilbert Heads University Press

David H. Gilbert, who has been director of the University of Nebraska Press since 1975, has been named the new director of the Cornell University Press.

Cornell Press, founded in 1869 as the first university press in America, has annual sales of nearly \$4 million and is ranked among the top 10 university publishers in the nation.

Gilbert's appointment is effective Aug. 1, according to Barry B. Adams, Cornell vice provost and chairman of the search committee that reviewed applications from 40 candi-

"David Gilbert possesses strengths in both the editorial and business functions of university presses," Adams said. "He has done a splendid job at Nebraska and is ideally suited to carrying out the mission of the Cornell University Press."

'University presses are being challenged to maintain their standards of excellence in scholarship while achieving financial stability," Adams added. "David Gilbert has talents that are ideal for meeting that chal-

Gilbert succeeds Walter H. Lippincott Jr., who will become director of the Princeton University Press Aug 1. Lippincott was named director of Cornell Press in 1981.

"Walter Lippincott has moved Cornell Press toward financial stability while seeking manuscripts in a broad range of disciplines and launching a series of books on national security that has been well received," Adams said. "His efforts deserve recognition and

Under Gilbert's direction, the University of Nebraska Press replaced a \$562,000 deficit with retained earnings of more than \$1 million, increased sales from \$570,000 to \$2.5 million annually, doubled its number of professional employees from seven to 14, and won more than 30 awards for content and design of its books.

Prior to joining Nebraska, Gilbert served as associate director of the University of Texas Press, as an editor and manager with the college department of the commercial publisher Holt, Rinehart and Winston Inc.

### Murphy Named Senior Trust Officer

John F. Murphy, vice president and manager for the Finger Lakes region of Norstar Trust Company, has been appointed to the new position of senior trust officer at Cornell, effective July 7, 1986.

Murphy will manage the University Trust Office and have overall responsibility for generating and administering trust and estate gifts and new and recurring planned gifts.

As part of his duties, he will meet with potential donors, advise donors and staff on financial planning for all types of gifts, and work closely with the Office of University Development to market deferred and other planned giving. Murphy will work in conjunction with the University Counsel's office and Treasurer's office in overseeing trust and estate administration.

A 1968 graduate of the Cornell University Law School, Murphy earned a bachelor of arts degree from St. Peter's College (1965).

### John Ford Named To Hospital Panel

John L. Ford of Cornell, a specialist in health-care services, has been appointed by Gov. Mario M. Cuomo to the New York State Hospital Review and Planning Council. Ford's term, confirmed by the state Senate, expires Dec.9, 1988.

The 31-member council carries out studies and make recommendations to the state commissioner of health and the Public Health Council regarding the need for construction, reconstruction, and modernization of hospitals and nursing homes.

Ford, who is chairman of the Department of Human Service Studies in the College of Human Ecology, represents one of eight regional health planning agencies on the hospital review and planning council.

# PEOPLE

# Win Department Prizes

Nine Cornell students have been honored with awards and prizes by the Department of Chemistry

John R. Wiesenfeld, department chairman, announced winners of the George Caldwell Prizes, named for one of the university's first professors of chemistry; the Harold Adlard Lovenberg Prizes, named for a 1925 graduate of Cornell; the Merck Index Awards, donated by the publisher of reference works; and prizes from the American Institute of Chemists and the American Chemical Society.

Receiving Caldwell Prizes of \$150 each were two members of the senior class who had shown "general excellence" in chemistry studies, Nancy Fregeau of Annandale, VA, and Henry Ting of Dunkirk, NY

Lovenberg Prizes of \$125 each for juniors majoring in chemistry and demonstrating "general excellence" went to Edward Blumenthal of Worthington, OH, and John Mitchell of Indianapolis, IN.

For "excellent scholastic records" and "outstanding work in chemistry," copies of the Merck Index were awarded to Howard Boey, Brooklyn, NY; Sang-Mo Kang, Fairfax, VA; and Alexander Shin, Coopers-

A certificate from the American Institute of Chemists, citing a "demonstrated record of leadership ability, character, and scholastic achievement," was awarded to William Alba of Marietta, OH.

Joanne Burn of Hockessin, DE, received a subscription to the journal Analytical Chemistry from the American Chemical Society's Division of Analytical Chemistry for displaying "interest in and aptitude for a career in analytical chemistry.'

### **Alumni Association Elects New Officers**

New officers and members of the board of the Cornell University Alumni Association have been announced.

President is Madolyn Dallas of Alexandria, Va., a member of the class of 1958. Vice presidents are Barbara H. Freed, class of 1951, of Menands, N.Y., and C. Evan Stewart, class of 1974 who earned his J.D. in 1977, of New York City.

Seven people were elected to two-year terms, including new members Susan P. Day (class of 1960, M.Ed. 1962) of Avon, Conn.; Mort Lowenthal (class of 1953) of Stamford, Conn.; and Kevin Montgomery (class of 1975) from Brooklyn, N.Y.

Re-elected to the 30-member board were Joan H. Ferreira (class of 1951) of Schenectady, N.Y.; C.K. Poe Fratt (class of 1953 and B.M.E. 1955) of New York City; Grace E. Richardson (M.S. 1962) of New York City; and Barbara H. Freed.

Retiring from the Cornell University Alumni Council are Richard W. Brown (class of 1949) of Stanford, Conn.; Alice S. Rivoire (class of 1941 and M.S. 1948) of New York City; and Leslie W. Stern (class of 1960) of New York City.

Members of the association's publications committee, which is responsible for the publication of the Cornell Alumni News, also have been announced. They are: Keith R. Johnson of New York City (class of 1956), chairman; Donald D. Christiansen of Huntington, N.Y. (class of 1950); and John A. Krieger of Weston, Conn. (class of 1949).

### Ag and Life Sciences **Names Two Emeritus**

Harold R. Capener and Dwight A. Webster have been awarded professor emeritus status in the College of Agriculture and Life Sciences.

Capener is an authority on the effects of economic stress on farm families. He has focused his research on the sociology of agriculture, rural community issues, and freshwater and environmental pollution problems.

A member of the Cornell faculty since 1964, Capener served as chairman of Cornell's Department of Rural Sociology from 1966 through 1976, and as president of the Rural Sociology Society in 1975-76. He retires from Cornell July 1.

Webster, a fisheries biologist, is best known for his research on salmon and trout in New York's Finger Lakes and in the Adirondack Mountains. He is the developer of a brook trout strain resistant to the effects of

Webster was instrumental in establishing the Adirondack Fishery Research Fund, which supports fisheries research in Adirondacks. During his tenure at Cornell, he served as chairman of the Department of Natural Resources from 1967 to 1971.

# 9 Chemistry Students National Group Elects Mondy

Nell Mondy, a Cornell scientist, has been elected a national honorary member of Graudate Women in Science. This is the highest honor given by this national organization of women and men engaged in research in the mathematical, physical, or biological sciences.

Founded at Cornell in 1921, Graduate Women in Science has chapters throughout the United States to promote the participation and recognition of women in science and to foster scientific research. Mondy was

### **Sprout Wins NCAA Graduate Scholarship**

Randy Sprout, who received his undergraudate degree from Cornell in May, has been awarded a postgraduate scholarship by the National Collegiate Athletic Association. Sprout, a native of



Everett, Wash., will receive a \$2,000 scholarship for postgraduate study at the university or professional school of his choice. The NCAA annually awards 90 postgraduate scholarships to student athletes. A student athlete must maintain a minimum

SPROUT 3.0 grade point average on a 4.0 scale—or the equivalent—and perform with distinction in a varsity sports in order to qualify. Sprout is the first Cornell athlete to receive an NCAA postgraduate scholarship since former Big Red standout running back Derrick Harmon was chosen in 1984.

Sprout was an electrical engineering major at Cornell and graduated with a 3.45 grade point average. He will return to Cornell this fall to begin work on his master's degree in engineering.

A six-time Easterns champion, Sprout qualified for the NCAA championships in each of his final two seasons. In April 1986, he placed sixth in the 50-meter freestyle with a time of 19.89 seconds to achieve All-America status. Sprout reached the finals by a fourth-place finish in the trials; where he shattered his own school mark, recording a time of 19.84 seconds.

At the 1986 Eastern championships, Sprout won the Hal Ulen Award, as the senior who accumulated the most points throughout his career. He holds school and pool records in both the 50- and 100-meter freestyle events.

### 3 in Engineering **Faculty Promoted**

Three members of the faculty in the College of Engineering have been promoted to the rank of associate professor. They are Dexter C. Kozen, William L. Olbricht, and Anthony P. Reeves.

Kozen, in the Department of Computer Science, specializes in theoretical computer science. He joined the Cornell faculty in fall

He is the author of research articles and an upcoming book, "Dynamic Logic," and is a reviewer for several professional journals.

Before coming to Cornell, Kozen was the manager of the Theory of Computation Project for IBM, where he won an IBM Outstanding Innovation Award in 1980.

Olbricht, in the School of Chemical Engineering, carries out research on viscous fluid mechanics with applications to flow through porous media, and the motion of red blood cells in the microcirculation. In the latter case, he is collaborating with engineers and physiologists at the University of Rochester School of Medicine.

He received an IBM Faculty Development Award for the years 1984 to 1986; the national award provides \$30,000 per year toward research expenses.

Reeves, who is in the School of Electrical Engineering, specializes in the design of computers for computer vision, programming them to identify objects, and in parallel processing, using a large number of computers to make extremely rapid calculations. He is the author of more than 50 articles on computer design.

### Schwarz Book Published

"The Humanistic Heritage" by English Professor Daniel R. Schwarz has been published by the University of Pennsylvania

Subtitled "Critical Theories of the English Novel from James to Hillis Miller," the book examines the common humanistic assumptions of critics as diverse as James, Forster, Leavis, Watt, Van Ghent, Kettle and Kermode.

president of this organization in 1983-84.

Monday is a professor of nutritional sciences in the College of Human Ecology and an authority on the biochemical and nutritional aspects of fresh and processed potatoess. Her early research dealt with B vitamins and the availability of iron for human nutrition.

Author of numerous scientific publications and the book "Experimental Food Chemistry," Mondy has served as a consultant in human nutrition and food in the U.S. and other countries.

# Kane, Shew Will Head Centennial

Ithaca Mayor John C. Gutenberger has named Robert J. Kane, dean emeritus of athletics at Cornell, former president of the United States Olympic Committee and a native Ithacan as general chairman of the Ithaca Centennial Commission.

The group of local citizens will plan and produce a year-long series of events celebrating many aspects of life in Ithaca, past, present and future, starting on the 100th birthday of the city's charter, June 1, 1988.

Working with Kane as executive vice

### Schmotter Elected Chairman Galton Selected Of Council on Admissions



**SCHMOTTER** 

James W. Schmotter, associate dean for administration at the Johnson Graduate School of Management, has been elected chairman of the board of trustees of the Graduate Management Admission Council.

This organization of 78 graduate manage-

ment schools employs the Educational Testing Service to develop and administer the Graduate Management Admission Test, the main standardized test used in MBA admissions nationwide. The council also conducts educational

programs and offers services to its member schools, prospective MBA applicants and management school admissions officers.

Schmotter, who joined the Johnson School staff as director of admissions in 1979, will serve a one-year term as chairman.

### **Chester Named** Dean of Arts

Geoffrey V. Chester has been named dean of the College of Arts and Sciences for a five-year term, beginning July 1, 1986.

The action was taken by the Executive Committee of the university's Board of Trustees at its meeting on campus May 31, upon the recommendation of President Frank Rhodes.

Chester, a member of the physics faculty and associate dean of the Arts College, succeeds Alain Seznec, dean since 1978, who is returning to teaching and research.

Chester has been a professor at Cornell since 1964, serving as chairman of major university study groups concerning self governance and academic responsibility of the faculty. He is an authority on liquid helium.

In addition to his teaching and research activities, Chester served as director of Cornell's Laboratory Atomic and Solid State Physics from 1968 to 1977. He was named associate dean of the Arts College in 1978.

Born in England, Chester holds a bachelor of science degree (1950) from Edinburgh University and a doctorate (1953) from King's College of London University.

### Van Vleck Receives **Honorary Degree**

Dale Van Vleck, an animal geneticist at Cornell, has received an honorary degree of doctor of science from the University of Nebraska in Lincoln.

A professor of animal science in the College of Agriculture and Life Sciences, Van Vleck was cited for the "Breadth and scope of his contributions to the science of animal

A member of the Cornell faculty since 1962. Van Vleck is known internationally for his expertise in animal genetics and its application in evaluating dairy cattle. His work has led to many changes in dairy cattle selection methods.

Born and raised in Nebraska, Van Vleck earned the B.S. (1954) and M.S. (1955) degrees from the University of Nebraska and the Ph.D. (1960) from Cornell.

### **Oglesby Reappointed** In Natural Resources

Ray T. Oglesby, an aquatic scientist in the College of Agriculture and Life Sciences, has been reappointed chairman of the Department of Natural Resources through Dec. 31,

A professor of aquatic science, Oglesby has held the chairman's position since 1982. He is an expert on the causes and control of water pollution problems as well as the study of freshwater ecosystems. Oglesby has been a member of the Cornell faculty since 1968.

#### chairman will be Randall E. Shew, former managing editor of the Ithaca Journal, who has been with Cornell as editor of the Cor-

nell Chronicle and director of community relations since 1969 and who plans to retire from the administration this fall. The commission is now seeking incorpora-

tion as a non-profit community enterprise and setting up an executive board and a board of directors. Early plans for the celebration are expected to be announced later

# 'Professor of Merit'

David M. Galton, associate professor of animal science, has been chosen by seniors in the College of Agriculture and Life Sciences as the 1986 Professor of Merit.

First presented in 1948, the award recognizes "excellence in teaching, advising, and concern for students." Nominations are solicited from graduating seniors by Ho-Nun-De-Kah, the agriculture college's honor so-

Galton, who joined the Department of Animal Science faculty in 1981, teaches courses in dairy cattle production, dairy cattle selection, and herd management. He developed and coordinates the Dairy Farm Management Fellows Program, a specialized program for interested dairy management students. He advises 35 to 40 undergraduates per year, and serves as faculty adviser to the Dairy Science Club, and Alpha Gamma Rho fraternity, and is coach of Cornell's dairy cattle judging team.

### Two Ph.D. Candidates **Newcombe Fellows**

Two Ph.D. candidates at Cornell University are among 47 students nationwide to receive 1986 Charlotte W. Newcombe Dissertation Year Fellowships.

They are Carol G. Bloodworth, anthropology, and Ann L. Cvetkovich, English. The fellowships "provide financial support for a full year of uninterrupted research and writing for students whose doctoral dissertations concern ethical or religious values as they relate to all areas of human endeavor."

Bloodworth's dissertation concerns local systems of social ordering in rural Ireland. She received her undergraduate degree from the University of California at San Diego in

Cvetkovich, a 1980 graduate of Reed College, is writing on "Sexuality, Sensation, and Sympathy: The Politics of Affect in the Victorian Novel.'

Administered by the Woodrow Wilson National Fellowship Foundation, the Newcombe program is the largest national program devoted to dissertation fellowships in the humanities and the social sciences.

The Charlotte W. Newcombe Foundation, which funds the awards, was created in 1979 in the will of the Philadelphia philanthropist.

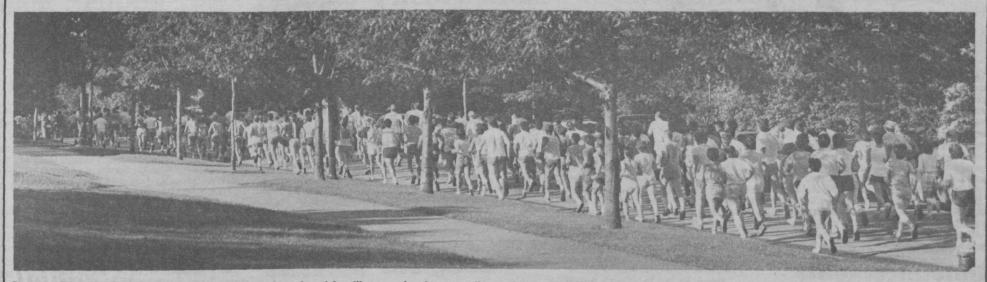
### **Grossman Elected** To Upson Chair

Ignacio E. Grossmann has been elected the Mary Upson Visiting Professor of Chemical Engineering, effective Aug. 1, 1986.

Grossmann, a professor of chemical engineering at Carnegie-Mellon University in Pittsburgh, will be at Cornell for one year. He will carry out research on the applications of optimization methodology to problems in chemical process design and will present a series of lectures on modeling and optimization.

In 1984, Grossmann received a Presidential Young Investigator Award from the National Science Foundation.

The Mary Upson Visiting Professorship is sponsored by the School of Chemical Engineering and the School of Operations Research and Industrical Engineering in the College of Engineering at Cornell.



Reunion Run fills East Avenue with returning alumni and families running in two-mile and five-mile events on a Saturday morning.

# **Reunion '86**

### For the Class of 1956, This Was a Reunion to Remember

By JAMES A. MAZZA

Some 5,000 alumni returned to the Cornell campus this month to see old friends and celebrate their alma mater. But for one returning class, the reunion activities were more than milk punch, jazz bands, and dinner at Willard Straight Hall.

Cornell's Class of 1956 returned to "the hill" not only to enjoy the traditional reunion festivities, but to present a \$2 million check to President Frank Rhodes — a gift for the university's new Performing Arts

Money from fund-raising efforts headed by class President Ernie Stern was donated to support two of the main performing areas in the center. "Presenting the university with such a gift made the weekend extra special for all of us," said Bill Callnin, '56 Reunion Chair. "It certainly added to the fun of reunion."

In fact, class members were so enthusiastic about the PAC project that they requested reunion headquarters be in Sheldon Court and Cascadilla Hall — the two dormitories overlooking the center's construction site.

The PAC donation, however, was only a small part of the weekend's activities. Sporting Lacoste-style Cornell shirts and red and white plantation hats, members of the Class of '56 could have out-paced any freshman on campus. For many, the day began with a run

or a bike ride up-and-down Ithaca's hills, or a row on the inlet from Collyer Boathouse. For those who skipped this version of the Olympic games, the morning started with a continental breakfast of chocolate-filled croissant, blueberry turnovers, and other assorted pastries, coffee, fruit juices, and Bloody Marys.

But after the second or third cup of coffee, everyone agreed that it was time to "get moving." Members of the class could be found at many of the weekend events: the lecture by former Egyptian first lady Jehan Sadat, the Tower Club reception, the divestment panel debate, the wine and cheese tasting at Willard Straight, or Cornelliana Night.

Between events, it was a quick change of clothes, and then out to the corner to wait for one of the many reunion buses that helped keep the busy group moving.

For others who decided on a slower pace, it was romantic walks through Cascadilla Gorge or along Beebe Lake, or an afternoon at the class' "second home" — Jim's Place (now the Chapter House).

"I don't remember our class having this much energy when we were here in school," said one '56er. "Maybe, now, we just procrastinate less."

Like the other reunioning classes, evenings were filled with receptions, parties, dinners, and, of course, dancing at the tents on the Arts Quad.

"The weekend was great," said Callnin of the reunion. "Not only did we get to see our friends, but we were able to continue our support of programs at the university."

James A. Mazza of the Class of 1987 was head clerk for Cornell's Class of 1956.



# Some Class Highlights

1911: Charles J. Fox, age 98, returned to campus for reunion. Fox, the founder of the Ithaca chapter of Alpha Sigma Phi (Rockledge), received an award at Cornelliana Night for the oldest alum in attendance. "Bushy," as he is known to his friends, is the only Cornell alum to shake hands with Cornell presidents A. D. White and Frank H. T. Rhodes.

1926: These youngsters broke all previous attendance records for 60 year reunion classes with 80 attendees.

1936: Thought of as one of the most festive and traditional classes, this class had the highest percentage (19%) of total classmates returning — 186 in all.

1951: This class has the highest percentage of Cornell University administrators: Bob Matyas, Jack Ostrom, and Dick Ramin.

1961: Dubbed "The Incredible Class of '61" by President Rhodes, class members donated a record \$3.2 million. They were well represented for their 25th get-together with more than 360 classmates. Thanks to an enormous donation of cookies, pastries, and other edibles by classmate Wayne Freihofer, the group was never hungry.

1976: This class shattered attendance records for a 10th year reunion with 286 classmates. The class remembered its alma mater in a non-traditional way: one of the class' dinners was served by the West Campus Hot Truck.



New rowing shells were christened over Reunion weekend at the Collyer Boathouse, these two honoring Carl and Becky Ullrich.

# 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 pof 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 Friday prior to publication.

All deadlines will be strictly enforced. \*Admission charged.

### **Announcements**

**Garden Tour** 

A tour of the Robison York State Herb Garden will be given by Raylene Gardner, Cornell Plantations education coordinator, Wednesday, July 2, at noon. The tour will begin at the Cornell Plantations headquarters building. Call 255-3020 for directions. Sponsored by Summer Session. Story Telling

Ann Bodman of The Odyssey Story Tellers will present "Stories of Adventure and Romance" Monday, July 7 at noon in the A.D. White House garden. Sponsored by Summer Session.

**Garden Tour** A tour of Miss Minn's Garden will be given Wednesday, July 9, at noon by Robert G. Mower, Cornell professor of floriculture and ornamental horticulture. Miss Minn's Garden is located on Tower Road. Sponsored by Summer Session.

**Summer Library Tours** Summer Session Tours of the Uris Library will be held Saturday, June 28 through Thursday, July 3. Interested persons should meet at the Uris Circulation Desk at 2 p.m. June 28 and 3 p.m. June 30. Handicapped students needing special tours should call 255-2339.

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 Wednes-

day at noon in 314 Anabel Taylor Hall.

Cornell Sailing Club

The Cornell Sailing Club is open to the Cornell and Ithaca communities and accepts members of all levels of competency. Sailing lessons are offered for those who have never sailed as well as for more experienced sailors who wish to improve their skills. The Club is located at Myers Point and is open until September 28. Please call Nigel Vice-President Membership, at 255-6049 or 255-1880 (evenings) for further information.

### Dance

Cornell Folkdancers

The Cornell Folkdancers will meet in the North Room of Willard Straight Hall on Sundays. Instruction from 7:30 to 8:30 followed by request dancing until 9:45 p.m. Free. Beginners welcome. No partners needed. For more information call 257-3156.

The Ithaca Ballet

The Ithaca Ballet will give a free performance Thursday, July 10, at 8:15 p.m. in Cornell University's Statler Hall auditorium. Sponsored by Sum-

### **Exhibits**

Herbert F. Johnson Museum

"Fukusa: Japanese Gift Covers from the Shojiro Nomura Collection," through June 15; "Michael Baum," through June 15; "Wingtrace—The
Sign of Its Track," through June 22; "Through
Norwegian Eyes: The Paintings of Christian Midjo," May 29 through July 11. The museum is located on the corpora of University and Control located on the corner of University and Central avenues. The museum is open Thursday through Sunday, 10 a.m.-5 p.m. Admission is free. Please call 255-6464 for further information.

Unless otherwise noted, films are sponsored by Cornell Cinema.

Thursday
June 26, 8 p.m. \*Uris Hall Auditorium. "The
Left Handed Woman" (1978), directed by Pete Handke, with Edith Clever, Bruno Ganz.

Friday June 27, 7:30 p.m. \*Uris Hall Auditorium. "An American In Paris" (1951), directed by Vicente Minneli, with Gene Kelly and Leslie Caron. June 27, 10 p.m. \*Uris Hall Auditorium. "The

Emerald Forest (1985), directed by John Boorman, with Powers Booth and Charley Boorman. Saturday

June 28, 7:30 p.m. \*Uris Hall Auditorium.
"The Emerald Forest" (1985).
June 28, 10 p.m. \*Uris Hall Auditorium. "An
American In Paris" (1951).

June 29, 8 p.m. \*Uris Hall Auditorium. "Zorba The Greek" (1964), directed by Michael Cacoyannis, with Anthony Quinn, Alan Bates, Irene Papas, and Lila Kedrova.

Monday

June 30, 8 p.m. \*Uris Hall Auditorium. "Woman In The Dunes" (1964), directed by Hiroshi Toshigahara, with Kyoko Kishida.

Tuesday July 1, 8 p.m. \*Uris Hall Auditorium. "The Lady From Shanghai" (1948), directed by Orson Welles, with Rita Hayworth and Orson Welles.

Wednesday

July 2, 8 p.m. \*Uris Hall Auditorium. "The Harder They Come" (1973), directed by Perry Henzel, with Jimmy Cliff, Janet Barkley, and Carl

Thursday

July 3, 8 p.m. \*Uris Hall Auditorium. "Woza Albert" (1982), directed by Percy Mtwa and Mbongeni Ngena, with guest speaker Locksley Edmondson. Shown with "Nelson and Winnie Mandela" (1986), directed by Peter Davis. Friday

July 4, 7:15 p.m. \*Statler Auditorium. "Lolita"

(1962), directed by Stanley Kubrick, with Peter Sellers, James Mason, Shelley Winter.
July 4, 8 p.m. \*Uris Hall Auditorium. "Fiddler
on the Roof" (1971), directed by Norman Jewi-

son, with Topol and Molly Picon.

July 4, 10:30 p.m. \*Statler Auditorium. "Purple Rain" (1984), directed Albert Magnoli, with Prince, Morris Day and Appolonia Kotero. Saturday

July 5, 7:30 p.m. \*Statler Auditorium. "Purple Rain" (1984).

July 5, 8 p.m. \*Uris Hall Auditorium. "Fanny and Alexander" (1983), directed by Ingmar Bergman, with Pernilla Allwin, Bentil Guve and Erland Josephson.

July 5, 10 p.m. \*Statler Auditorium. "Lolita"

Sunday
July 6, 7 p.m. \*Uris Hall Auditorium. "Butch
Cassidy and the Sundance Kid" (1969), directed by George Roy Hill, with Paul Newman, Robert Redford and Katherine Ross.

July 6, 9 p.m. \*Anabel Taylor Hall courtyard. Two silent films, "Flesh and the Devil" with Greta Garbo and "Behind the Screen" with Charlie Chaplin. Live electronic music will accompany each film. Sponsored by Summer Sessions. Rain location: Anabel Taylor Hall auditorium.

Monday July 7, 8 p.m. \*Uris Hall Auditorium. "The Shop on Main Street" (1965), directed by Jan Kadar, with Ida Kaminska and Josef Kroner. Tuesday

July 8, 8 p.m. \*Uris Hall Auditorium. "Hamlet" (1948), directed by Laurence Olivier, with Laurence Olivier and Jean Simmons.

Wednesday July 9, 8 p.m. \*Uris Hall Auditorium. "Guys and Dolls" (1955), directed by Joseph L. Mankiewicz, with Marlon Brando, Frank Sinatra and Jean Simmons.

Thursday July 10, 8 p.m. \*Uris Hall Auditorium. "Jazz Cartoons". Shown with

"The Fabulous Dorseys" (1974), directed by Alfred E. Green, with Tommy and Jimmy Dorsey.

### Lectures

July 7, 11 a.m., "Stylistic Similarities in Chero-kee and Iroquois Music," Charlotte Heth, direc-tor, American Studies Center and associate professor of music, UCLA, 116 Lincoln Hall.

A lunchtime series called the Great Books Seminars will take place on Tuesdays, noon to 1 p.m., in the A.D. White House, Room 201, from July 1 through August 5. "Pride and Prejudice" by Jane Austin and "One Hundred Years of Solitude" by Garcia Marquez are the subjects of the six-week series. Sponsored by Cornell University Summer

A lecture entitled "Crossing Cultures with Koko"will be given by Joanne Tanner of The Gorilla Foundation on Wednesday, July 2, at 8:15 p.m. in Statler Hall auditorium. Sponsored by Summer Session.

"The Quest for Harmony between Work and Family: Whose Problem Is It?" will be considered in a lunchtime lecture Thursday, July 3, at noon in 213 Ives Hall. The speaker will be Sara L. Rynes, Cornell assistant professor of industrial and labor relations. Sponsored by Summer Session

"Putting the One Minute Manager to Work in Your Life" will be the subject of a lecture by Kenneth Blanchard, author and founder of Blanchard Training and Development, on Wednesday, July 9, at 8:15 p.m. in Statler Hall auditorium. Sponsored by Summer Session.
"Agricultural Changes in New York State: Im-

pact on Families and Communities" is the subject of a lunchtime lecture Thursday, July 10, at noon in 213 Ives Hall. The speaker will be Jan W. Mc-Gonigal, senior extension associate and program coordinator of Cornell Cooperative Extension. Sponsored by Summer Session.

### Music

The Commons Coffehouse is in Anabel Taylor Hall on the Cornell campus, and on June 29, "The Dady Brothers," Irish music, and on July 6, The "North Fork Alliance," a bluegrass band will be broadcasted live on FM 93 (WVBR) on Sunday nights from 8 to 11 p.m. Performances are free and open to the public. Come join us for three live sets, at 8:30, 9:30, and 10:30 p.m.

The Ithaca Concert Band will perform a free outdoor concert Tuesday, July 1, at 6:30 p.m. on the Arts Quad. Sponsored by Summer Session. Rain location: Kaufmann Auditorium, Goldwin Smith Hall.

Bristol Mountain Bluegrass will perform a free outdoor concert Thursday, July 3, at 7 p.m. on the Arts Quad. Sponsored by Summer Session. Rain location: Kaufmann Auditorium, Goldwin Smith

The Sokol Salmirs Duo - Rolfe Sokol, violin, and Michael Salmirs, piano — will perform a free concert Monday, July 7, at 8:15 p.m. in Statler Hall auditorium. This performance of the "Sonata for Violin and Piano" will inaugurate a year of

8 9 10 11 12 13 **14 15** 16 17 18 19 20 21 22 23 29 30 23 24 25 26 27 28

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special performances of Karel Husa's music in honor of his 65th birthday. Sponsored by Summer

The band "Adult Western" will perform a free outdoor concert Tuesday, July 8, at 7 p.m. on the Arts Quad. Sponsored by Summer Session. Rain location: Kaufmann Auditorium, Goldwin Smith

The Joe McConnell Band will perform big band music in a free concert Thursday, July 10, at 7 p.m. on the Arts Quad. Sponsored by Summer Sessions. Rain location: Kaufmann Auditorium, Goldwin Smith Hall.

### Religious Services

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

Every Sunday, 10 a.m., Anabel Taylor Audito-

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

Sacrament of Reconciliation by appointment — 255-4228, G- 22, Anabel Taylor Hall Announced on a week by week basis. Christian Science

Every Thurs., 7 p.m. Anabel Taylor Founders

Room. From June 5-Aug. 7.

Episcopal (Anglican). Every Sunday, 9:30 a.m. Anabel Taylor Chapel. Great Commission Students

Every Sunday, 10:30 a.m. Multi-Purpose Room, Robert Purcell Union.

Worship Service.

Every Wednesday, 7:30-8:30 p.m. G-03 Founders Hall. Discussion group/fellowship.

Jewish

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

Every Friday, 7:30 p.m. Anabel Taylor Founders Room. Conservative Shabbat Services. Watch for time changes.

Every Saturday, 9:15 a.m. Anabel Taylor Edwards Room. Orthodox Shabbat Service.

Every Saturday, 10 a.m. Anabel Taylor Founders Room. Conservative Shabbat Service. Young

Friday, 7 p.m. Orthodox, 272-5810, Young Israel, 106 West Avenue.

Korean Church

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

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

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

# Judicial Administrator

Case Summaries for May 1986

The Office of the Judicial Administrator reports WR; disciplinary probation for one year; 45 hrs the following case summaries for May, 1986. The abbreviations used are WR for written reprimand, CS for community service, rest. for restitution and susp. for suspended. The number of defendants in each case is one (1) unless otherwise specified.

Setting off fireworks: WR; \$200 fine

Attempted theft of gameroom equipment from a student union: WR; 25 hrs CS

Slinging potatoes through the windows of another student's room: WR; 45 hrs CS (4 defendants)

Alteration and misuse of a university parking permit: WR; 15 hrs CS susp.

Alteration and misuse of a university parking

Unlawful use of university property and failure to comply with orders to leave: WR; disciplinary probation for one year; 25 hrs CS (5 defendants)
Unlawful use of university property on two occasions and failure to comply with orders to leave:

WR; disciplinary probation for one year; 40 hrs CS (4 defendants) Unlawful use of university property on two occasions and failure to comply with orders to leave and to walk to Public Safety's processing area:

CS (3 defendants)

Unlawful use of university property on two occasions and failure to comply with orders to leave, to walk to Public Safety's processing area and to identify himself to Public Safety: WR; disciplinary probation for one year; 50 hrs CS

Damage to university owned lawn: WR; 40 hrs CS susp., Rest. of \$218.20

Refusal to comply with the lawful order of a Public Safety officere: WR Damage to university property: WR; 40 hrs CS

susp., Rest of \$120.00 Alteration of a university parking permit and use of same: WR; 15 hrs CS susp (3 defendants) Misuse of a special guest one-day permit: WR;

\$50.00/15 hrs CS Damage to a window on the south side of Hughes Hall: WR; 40 hrs CS susp., Rest. of

Alteration of a one-dy U parking permit and use of same: WR (4 defendants)

Alterations of a U parking permit: WR Endangerment to others by causing a fire alarm to activate: WR; 40 hrs CS with 20 hrs susp.

# Graduate Bulletin

THESIS PREPARATION ORIENTATION MEETING-July 8, 9 a.m. (master's), 10:30 a.m. (Ph.D.). The meetings last for approximately one hour. The thesis adviser and the director of the Graduate School records office will discuss preparing and filing theses and will answer questions about registration, fees, etc. Tom Young, from Computer Service, will discuss CUTHESIS and word processing on the Apple MacIntosh and the

Guaranteed Student Loan applications are now being processed for the 1986-87 year.

Association on American Indian Affairs, Inc. Applications accepted continuously. The Emergency Aid Program assists American Indians and Alaska Natives by providing awards of between \$150 and \$300 based on financial need.

U.S. Department of Energy, Office of Energy Research and Fossil Energy. Internships and reand research experience in a variety of energy-related disciplines and technologies. Areas considered include engineering, physical and life sciences, mathematics, computer science and social

National Science Foundation. International Travel Grants for graduate students are available to enable up to 200 outstanding young U.S. scientists to attend NATO Advanced Study Institutes held in Europe. These two-week tutorial courses provid round-trip fare and require U.S. citizenship to apply. Normally no U.S. institution will be rep resented at any one Institute by more than one NSF grantee.

National Science Foundation. Grants for Improving Doctoral Dissertation Research. Grants provide funds for items not normally available from the student's university or other sources including travel to specialized facilities, special equipment, etc. Awards are made through the in-stitution and the student's adviser for up to twenty-four months in the fields of biological, physical, and social sciences.

American Psychological Association (Minority Fellowship). For graduate work in psychology, awards are given to U.S. citizens and permanent visa residents who are Black, Hispanic, Native American, Japanese, Chinese, Korean, Filipino, Samoan, Hawaiian, Guamanian, and others who show interest in and commitment to careers in mental health research and/or service relevant to ethnic and racial minority groups. Deadline: De-

# **A&LS Honors Senior Leaders**

Bruce A. Jones, a 1986 graduate of Cornell, has been awarded the 1986 "Senior Service Award" by the College of Agriculture and Life Sciences at Cornell.

A resident of Madrid, N.Y., Jones was cited for his "leadership and service to the College of Agriculture and Life Sciences as an undergraduate student." He received a cash award of \$100 and a plaque. Nominations were made by peers in student

organizations. Jones, an agricultural education—farm production management major, served on the steering committee of Agriculture and Life Sciences Ambassadors, was president of

Collegiate 4-H in 1983-84, and was a student

adviser, assisting new students in their ad-

justment to campus life, from 1983 to 1985. Runners-up were Nancy Abrams (agricultural economics) from Albany, N.Y., and Marc Honig (microbiology), from Bayside, N.Y. Abrams was active in ALS Ambassadors, serving as chairman in 1985-86, and was a student adviser. Honig was president and acting treasurer of Ho-Nun-De-Kah, the

college's honor society, served as ALS representative on Cornell's Student Assembly in 1985-86, and was an ALS Ambassador in

### Softball Players Should Park in CC Parking Lot

With intramural softball now in progress at Helen Newman and Jessup Fields, the Department of Public Safety has issued a reminder that parking is prohibited along Jessup Road. Although it is clearly marked, many softball players have continued to park there during their games.

The CC Lot, just across Jessup from the playing fields, is available and has plenty of room for players to park. And, says Safety,

# Black Scholar Says Literary Theory Must Include Informed Criticism Of Black Works; Says Theory Itself Must Be Expanded

By DAVID ARTIS
Stanford University News Service

Cornell professor Henry Louis Gates used a May 20 Stanford lecture to respond to recent arguments that his calls for criticizing black writing as the product of a specific literary tradition isolate black works from general literary theory or reject the emotional bonds between black authors and their readers

Gates, who holds appointments in English, Africana studies, and comparative literature at Cornell, discussed "Criticism, Integrity, and the Black Tradition" in a talk sponsored by Stanford's English department

In his latest essays, Gates has spoken of the need to read black literature in a way that avoids both mainstream prejudice and what he calls the "reflection" fallacy.

As a result, he said, some white critics have accused him of making black literature exclusive, while some black critics have insisted that he is severing the emotional attachment that makes black literature special.

Black literature, Gates contends, is generally not read with a respect for its integrity as literature or a thorough knowledge of the literary and rhetorical tradition that it illuminates

There is "a long way to go before older white critics" can read "the critical discourse of the other color" in literary fashion, he said.

Black American writing began only secondarily as a literary endeavor. Black people in the 18th and 19th centuries were under great pressure "to create a written literature in order to prove their humanity, he said. Their primary reason for writing was an "urge to refute the claim of an inferior culture"

Consequently, Gates said, their prose and poetry were not read in the same critical way as the writings of white authors. Works by black writers were used "to settle the matter of black mental equality."

Gates described the experience of Phillis Wheatley, a black woman who lived in 18th-century Boston. She wrote a volume of poetry but could not publish it until her works had been examined by 18 of the most prominent citizens in Massachusetts and she had been judged to be the true author.

Speaking of the first Afro-American literature, Gates remarked that "allegations of its absence produced its presence."

Even today, black literature "serves several purposes." Its integrity as a literary well-spring may have suffered because the writings have so often been treated primarily as social documents.

But Gates stressed that before works can be reviewed in a purely theoretical way, literary theory itself has to be expanded to avoid its own prejudiced assumptions and expectations.

"Is the use of theory to evaluate Afro-American literature merely another form of indenture?" he asked rhetorically. He pointed out the "marriage of logocentrism and ethnocentrism" present in criticism that has generally been applied to works by white Gates also recounted a brief anecdote concerning a white critic who spoke at Cornell on "Ethics of Criticism." His talk had been mistakenly advertised as "The Ethnics of Criticism." The speaker began his lecture by saying that he "would not be ethnic in any way."

way."
"Of course, he was," said Gates. "He just didn't know he was being ethnic."

While acknowledging the difficulties of adapting biased systems to minority literature, Gates added "racism is not a sufficient reason not to use theory."

"All theory is text-specific," he said, and so must ours be."

Close readings of texts by black authors can illustrate the critical methods and forms of the tradition in a systematic way and "transform Western theory."

"We all share the art of interpretation," Gates commented. "We ought to eschew the categories of domination and ideology."

categories of domination and ideology."
"We bring implicit theories to reading,"
Gates said. A sensitive reading of black literature complete with theoretical guidelines helps the reader "respect the integrity and wholeness of the black tradition."

wholeness of the black tradition."

It allows the reader "to bring all the attention to the language learned from critical readings to black texts and will eventually create a black text-specific theory."

Gates pointed out that there is another pitfall to present readings of black literature, the "reflection" theory. The idea, he explained, is that black literature is judged as good or bad according to how it is perceived to reflect the experiences of black Americans. Gates said that his use of the Russian formalist concept of defamiliarization Lelped him "to separate myself from the experiences in the texts."

It is necessary to read black literature objectively, he asserted, in order to "translate theory into black idiom and above all to bring indigenous black forms into larger tradition."

Such steps are necessary to protect black texts from "the violation of the uninformed reading."

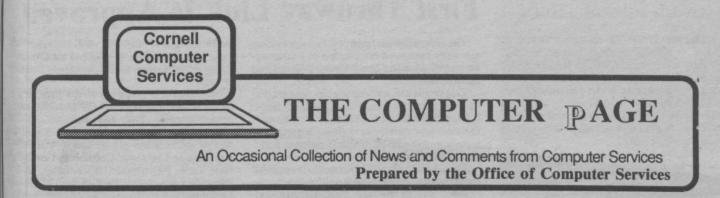
Gates earned his degrees from Yale and Cambridge and has taught at Yale and Cornell. He also is a recipient of a MacArthur fellowship.

Though he has imposing academic credentials, Gates captivated the overflow crowd with what Albert Gelpi, English department chairman at Stanford, called "remarkable immediacy and human presence."

Gates' address was marked by an easy manner and a mixture of difficult critical concepts and contemporary popular reference points.

Upbraided by a prominent black scholar for his supposed "abandonment" of the use of the emotional impact of black literature as a critical tool, Gates responded in an article titled "What's Love Got To Do With It?" He quoted the Tina Turner song in his talk.

Gates' arrival at Stanford was delayed by an airline foul-up, but he managed to turn even that circumstance into a display of charm. Two students arrived soon after Gates began his lecture and stood shyly in a doorway. Gates turned to them and said, "Come in. I just got here myself."



# Major Upgrades Scheduled For IBM, DEC Systems

Major upgrades to Cornell's mainframe computing systems are planned for July, according to Larry Fresinski, Academic Computing. The changes involve the DECSYSTEM-20 and IBM 4341 systems.

A VAX (Virtual Address extension) 8500 from the Digital Equipment Corporation will replace the DECSYSTEM-20 which was Purchased six years ago to expand the use of computing in instruction and to provide an easy-to-learn operating system, Fresinski said.

(The DECSYSTEM-20 will continue to operate for approximately 60 days after the installation—acceptance of the VAX 8500

but is not expected to be running for the fall 1986 semester.)

The VAX 8500 which was announced this spring uses Digital Equipment's latest technology and is the most powerful VAX per square foot on the market today. New technologies and decreasing support of the DECSYSTEM-20 by software vendors have made this an opportune time for Cornell to provide a significant improvement in computing facilities, Fresinski said.

He listed these pluses for the VAX 8500. It operates at almost twice the speed of the DECSYSTEM-20, offers much greater I/O (input/output) ability, is more reliable, costs

much less to maintain, offers the newest software packages, and has twice the main memory of the DECSYSTEM-20. And it occupies only one-sixth the floor space of the DECSYSTEM-20 and its peripherals.

The new VAX will use the VMS (Virtual Memory System) operating system. It has already proved to be a popular operating system on the campus and is widely used at other universities and in industry. Users of TOPS-20, the operating system on the DECSYSTEM-20, cannot expect to use VMS immediately based on a knowledge of TOPS-20, Fresinski advised. He pointed to an extensive help system provided with VMS, the VMS primer and manuals, and campus seminars, workshops, and consultants as sources of help. Cost of using the VAX 8500 will be

comparable to the DECSYSTEM-20. Further information about the VAX 8500 can be found in the Computer Services publication, AN-370, available at the staffed cmapus terminals.

The IBM 4341 which was installed in March 1981 is scheduled to be replaced by an IBM 4381-13 during the weekend of July 11. IBM announced this new system in the spring of 1986. It has twice the speed of the old system, 50 percent more memory (24 megabytes), twice the number of channels (12) for greater I/O capacity and fits in less floor space.

Since the current operating system, CMS, and applications software used on the IBM 4341 will be installed on the new machine, users' applications will not be affected by the change. The 4341 will be unavailable after 6 p.m. on July 11 and the new machine will begin operating at 8 a.m. on July 14.

### Need Help Selecting Microcomputer Equipment?

Tom Hughes of Academic Computing will be host for two informal seminars on selecting microcomputer systems, printers and peripheral equipment during July. They are scheduled for 100 Caldewll Hall on July 2 (rescheduled from July 1) and July 23, both from 10 a.m. until noon. The seminars are open to the public, and interested persons are encouraged to come and get advice and ask questions.

### Hands-on Training Offered by New Macintosh Users

CCS is offering informal hands-on training sessions in the use of the Macintosh microcomputer throughout the summer, free of charge. These sessions will cover a variety of topics and are designed to increase user productivity on the Macintosh. The sessions will be held in G25 Stimson Hall, 7-9 p.m., July 2, 19 and 30. No advance registration is needed.

### Service Contracts For Microcomputers Available July 1

For the first time owners of IBM micro-computer equipment such as the PC, XT, or AT can purchase an after-warranty contract for their equipment through the Network Communications Office. The contract serves as an insurance plan to cover parts and labor for remedial repairs to the IBM microcomputers and related peripheral products sold and supported by Network Communications, according to Nancy Flynn, marketing manager.

To accommodate the diverse needs of the Cornell community, Network Communications will offer both carry-in and on-site contract options for this equipment beginning July 1. The standard carry-in plan requires customer delivery to the NetComm Distribution and Repair Facility at 152 Langmuir Lab. Customers can choose on-site service for the Ithaca campus at slightly higher annual rates. New IBM microcomputer buyers can elect either service option at the time of initial equipment purchase, or anytime during their original warranty period.

Previous purchasers of IBM microcomputers will be notified by mail of contract rates and service options for the equipment they currently own.

Since many of the original IBM warranties on that equipment have expired, it will be necessary for the NetComm technicians to inspect customer installations to insure that they are in proper working order before any type of service contract can be written, Flynn said.

Fees for these inspections, which require one and a half to two hours, will be waived from July 1 to Aug. 29 in an effort to get as many IBM owners as possible to insure their equipment. After that time a fee of twenty-five dollars per system unit will be charged for inspections that are made at 152 Langmuir Lab and for on-site inspections. Appointments for on-site inspections may be made by calling the NetComm Distribution and Repair Facility at 255-5531.

Anyone wanting additional information including price lists or with questions about contract terms and procedures may call the NetComm Sales Office at 255-5544.



DIGITIZED IMAGE—James Hart C. Martens, attending his 65th reunion June 13-14, was among the more than 100 visitors to the Computer Services exhibit who took home digitized pictures of themselves. Pictures were taken with a video camera, then fed into a Macintosh computer and printed on an Apple LaserWriter, a process used in "desktop publishing."

# Study Shows Most Pesticides in U.S. Miss Their Target

Most of the pesticides applied in the United States never hit intended pests, but end up polluting the soil, water, and air and poisoning many unintended plant and animal spe-

That finding comes from Cornell scientists who have analyzed where and how pesticides are used and how these chemicals wind up in the environment.

On the basis of that study, David Pimentel, a Cornell entomologist and agricultural scientist specializing in ecological problems and issues, calls for improvement of the current methods used to apply pesticides.

"Research is desperately needed to develop more effective means of delivering pesti-cides directly to target pests," he emphasizes. "Improved application technologies should help to reduce the pesticide use by at least half without diminishing the effectiveness of pest control.'

Pimentel reports that about one billion pounds of various types of pesticides, such as insecticides, herbicides, fungicides, and soil fumigants, are applied in the nation at a cost of \$3 billion annually, but only a fraction of the material actually hits the target. About the same amount of creosote, petroleum, and coal-tar products is also used as biocides to preserve wood and other materi-

As a result, he says, more than 99 percent of the pesticides are contaminating water, land, and air as well as plants and animals.

'Most of the nation's 200,000 species of plants and animals are affected directly or indirectly by the enormous quantity of pestimentel says. "Often, less than 0.1 percent of pesticides applied to crops actually reaches target pests.

In addition to \$3 billion spent on pesticides, the Cornell scientist claims that social and environmental costs resulting from the widespread use of such chemicals run as high as \$1 billion each year.

"Human poisonings are clearly the highest price paid for pesticide use," Pimentel notes. An estimated 45,000 human pesticide poisonings occur annually, including about 3,000 cases admitted to hospitals and about 200 fatalities."

In addition, control of pests that develop resistance to pesticides and new pest problems resulting from the killing of natural enemies of the pests costs nearly \$300 million each vear.

Major users of pesticides are farmers, government agencies, industries, and home owners, with agriculture using the bulk of the chemicals (78 percent), Pimentel says.

The organic pesticides are applied to some 370 million acres of land, or about 16 percent of this nation's total land area. This averages nearly 3.7 pounds of pesticides per acre, according to Pimentel.

Among crops treated heavily with pesticides are cotton, fruit trees, corn, soybeans and vegetables. Areas adjoining heavily treated croplands receive large quantities of chemicals and aquatic systems often receive runoff from areas treated heavily with pesti-

Discussing how pesticides are applied, the Cornell scientist says that except for direct spraying of weeds and trees, most of the pes-

ticides sprayed do not reach pests, particularly when applied to flying insects such as mosquitoes.

To hit flying insects, Pimentel explains, spray droplets must be extremely small. Many such droplets drift beyond the target area, never touching the pests. Large spray droplets, on the other hand, tend to bounce off the target and settle rapidly, with a low probability of coming into contact with their targets.

Citing aerial application as an example of how large quantities of pesticides drift away, Pimentel says that spray drift from aerial application is five times greater than from ground applications for row crops. For this reason, up to 30 percent more pesticide is applied from aircraft than from the ground. Aircraft are used to apply 20 to 25 percent of pesticides used in the nation.

"When pesticides are applied aerially to forests, even more can be lost than from applications to field crops, partly because of the height from which the chemicals are

sprayed," Pimentel says.

Explaining how pesticides move into the soil, water, atmosphere, plants, and animals, the Cornell scientist says that pesticides, after partial degradation, can remain in the soil for long periods. Although relatively small amounts of pesticides are applied directly to streams, lakes, and reservoirs, significant quantities end up in aquatic habitats, because pesticides applied to the land are often carried off by water and sediments into aquatic habitats and groundwater.

Plants pick up pesticides through the soil or through direct application of pesticides.

pesticides by feeding on sap and plant tissu or by coming into direct contact with chem cals applied to plant surfaces.

Also affected are beneficial parasitic and predaceous organisms, such as birds, amphibians, reptiles, and mammals, which could accumulate sufficient quantities of pesticides by feeding on insects and earthworms containing pesticide residues.

"When enough pesticides reach an ecosystem, they alter both its structure and function," Pimentel says. "Because pesticides are poisons, a certain number of plan and animal species belonging to the ecosystem will be eliminated or their populstions will be significantly reduced."

The sensitivity of some soil microorganisms to pesticides can alter the speed or eff ciency of nutrient cycling, thus affecting th productivity and stability of the environment, he points out.

The excess pesticides that wind up in the environment also put pressure on pest pop ulations to develop resistance, a problem es timated to cost the nation at least \$130 mil lion per year in additional chemicals to combat them, according to Pimentel's analy

Stressing the need to develop better pesti cide application methods to zero in on targe pests with more chemicals than now is poss ble, Pimentel argues that more effective ap plication technologies would greatly benefit public health and the environment.

Pimentel, a faculty member in the Colleg of Agriculture and Life Sciences conducted the study with graduate student Lois Levi-

# Gold's Theory -

Continued from Page 1

little sediment. Gold believes Sweden sits atop hydrocarbons from the same source that supplies gas to wells in nearby Norway, East Germany, and the Soviet Union.

They will drill at the northern rim of a 30-

mile-wide crater formed 360 million years ago by the impact of a meteor. The impact crushed the granite, making it porous enough to permit the upward flow of gas, Gold believes. Test drilling at the site, a popular resort known as the Siljan Ring, has already found gas 2,000 feet below the surface.

"We will find significant amounts of gas," Gold predicts. "I don't know if this particular well will tap into commercial quantities, but I guarantee you we will find something.

The result: proof that hydrocarbon fuels originate from deep within Earth, not from sediments, and are abundant in places that are not considered oil- and gas-rich, says

"Not so," says Cornell geologist Gibbs.
"The Siljan Ring is not a critical test of conventional oil and gas theory."

First, he explains, shallow sedimentary rocks that surround the crater might account for the oil seeps and shallow gas already found in the Siljan Ring. Second, geological maps and geophysical studies of the area suggest that there may be layers of sedimentary rock as deep as 30,000 feet. If deeper gas is found, it will be necessary to prove whether such rocks could have been the

These deeper sedimentary rocks are Precambrian — more than 600 million years old. Thirty years ago, geologists thought it unlikely that rocks that old could be sources

"We now know that many rocks that old and older contain as much carbon as their younger counterparts, and that simple life forms have been contributing their hydrocarbons to sedimentary rocks throughout most of Earth's history," Gibbs says. "Important commercial gas deposits in Australia, China, and Siberia are traced to sedimentary sources of comparable age."

"It is unusual, but not unknown, to find gas in Precambrian rocks," Gibbs adds. "Gold may be correct when he says this crushed rock in Sweden has sufficient porosity to act as a reservoir for hydrocarbons, but there is no reason to think the fuels originated directly from Earth's mantle."

"If significant amounts of gas are found deep beneath Siljan, it should encourage us to continue to look into other areas where similar sedimentary rocks are suspected, both in that part of Sweden and on other continents," he says.

But Gold says discovering deep gas will mean more than that. "The granite in Sweden is 1.2 billion years old. For there to be sediments under there that are still yielding hydrocarbons is quite unlikely," he says.

"The publicity and criticism will make our success more dramatic. First, geologists opposed drilling in Sweden; now they're trying to explain what I might find there.

"I really don't care if I convince the geologists," adds Gold, who keeps a bottle of oil from the Siljan Ring in his office. "After several successful efforts, the current theory will just fade away.'

# Fiber Optic Communication Line: First Thruway Link Is Approved

The federal Department of Transportation last week approved installation of a fiber optic communication line between Albany and Schenectady

This opens the way for the next generation of high speed computer links - including the Cornell-backed NYSERNet - among the state's research universities, high technology corporations, medical centers, and major libraries.

The six-mile Capital District line required federal approval because it will run along the right-of-way of the New York Thruway, a part of the interstate highway system where oil, gas, and power lines are normally prohibited. New York State is still seeking permission to install fiber optic cable along the Thruway's entire 559-mile route.

"We welcome this expansion of the state's communications capabilities," said William L. Schrader, executive director Cornell's supercomputer center. He is also president of the New York State Education and Research Network Inc. (NYSERNet). New York's socalled digital thruway, together with the 15

institutions in NYSERNet, will provide "the most comprehensive high-speed data communications system in the country," Schrad-

NYSERNet is currently in the planning phase with completion of the installation project expected later this year.

Capable of transmitting up to 1.5 million bits of information per second, NYSERNet will include Clarkson, Columbia, Cornell, New York, Polytechnic, Rockefeller, and Syracuse universities; Brookhaven National Laboratory; City University of New York; Rensselaer Polytechnic Institute; State Uni versity of New York centers at Albany, Bing hamton, Buffalo, and Stony Brook; and the University of Rochester. Also involved in NYSERNet are firms such as Grumman Corp., Eastman Kodak Co., and Corning Glass Works.

Chairman of the NYSERNet corporation is Richard Mandelbaum, vice provost of th University of Rochester. Kenneth M. King vice provost for computing at Cornell, is 8 director of the corporation.

# Biotechnology -

Continued from Page 1

research animal rooms, plant growth chambers, and computer facilities with network connections are planned, as are a fermenter laboratory, special environment chambers, photographic darkrooms, an electronics shop, instrument rooms, and seminar

Notable architectural features of the new building include a four-story, glass-topped atrium stairway, and stacks of half-round bay windows to provide panoramic views from many offices. The exterior building materials will be buff-colored, pre-cast concrete panels, trimmed with brick and glass. A covered passageway will connect the biotechnology building to Corson-Mudd halls.

Architects for the building are Davis, Brody and Associates of New York City. More than \$1.5 million in research - fo-

cusing on molecular aspects of genetics and cell biology in plants, animals, and cell production — was funded by the Biotechnology Program in the past year. Another \$20 million in biotechnology research, funded from other sources, was conducted at Cornell during the same period.

Currently, biotechnology research is being carried out in existing facilities of four participating colleges on Cornell's Ithaca campus: the College of Agriculture and Life Sciences, the College of Arts and Sciences, the College of Engineering, and the College of Veterinary Medicine.

While the new building will concentrate biotechnology activities in one central campus location, a considerable amount of research will continue throughout the campus. Interdisciplinary research is an important aspect of the biotechnology program.

# 'One-Minute Manager' to Lecture

Kenneth Blanchard will discuss "Putting the One-Minute Manager to Work in Your Life" at 8:15 p.m. Wednesday, July 9, in Statler Hall auditorium. The lecture is free and open to the public.

Well-known as the author of the 1983 best-seller "The One-Minute Manager," Blanchard is also the founder of a successful consulting firm, Blanchard Training & Development, Inc., and a professor of leadership and organizational behavior at the University of Massachusetts at Amherst. He received a doctorate in administration and management from Cornell.

In his lecture, Blanchard will explain how the one-minute manager philosophy applies "not only in your life as a manager, but in your role as a parent, spouse, and lover; catching people doing things right can bring joy and accomplishment in all aspects of your life."

His common sense methods of motivating people and getting results have attracted clients such as AT&T, Holiday Inn, the U.S. Armed Forces, Mobil, IBM, and Xerox. In "The One-Minute Manager," which sold three million copies, and the three books that followed in the series, Blanchard describes managerial techniques that apply the power of positive thinking.

The lecture, part of the Cornell Summer Lecture Series, is one of the campuswide events with the theme "The Quest for Harmony." Commenting on the concept of harmony, Blanchard said that the problems in the world today are not technical problems; they are people problems. "We are so far advanced technologically, we can do so many things that people never dreamed were possible, and yet as we look around the world at our organizations and homes we see conflict abounding among people," said Blanchard.

With his wife and business partner, Marjorie, Blanchard recently endowed a professorship in human resource management in the School of Hotel Administration In a Cornell Chronicle article (6/12/86) Blanchard said, "We're trying to make behavioral science come alive so people can us it in their lives. The human element gets lef out of most programs. Organizations, including educational institutions, can be improved in incredible ways with the proper at titude and approach to human relations.

The lecture is sponsored by Cornell University Summer Session.

## **Trustees Meet** In NYC Today

The Executive Committee of the Board of Trustees will meet today in New York City

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

Also meeting in open session today is the Buildings and Properties Committee. That meeting is at 9 a.m. in room M-109, the Van derwarker Room, at Memorial Sloan-Ketter ing Cancer Center at 1275 York Ave. in Nev York City.

Among items to be considered by the Ex ecutive Committee will be an addition to the Regulations for Maintenance of Public Order that clarifies the definition of student. Other agenda items include facilities, person nel, and legal matters.

### **Chemistry Will Offer Microscopy Course**

An intensive, one-week course in polarized light microscopy will be offered July 28 to Aug. 1 by the Departments of Chemistry and Chemical Engineering. The graduate-level course will be taught by Walter C. McCrone, whose Research Institute will be underwrit-

ing all expenses for the course.

Since registration is limited, those interested in participating in the course should contact Donna Middleton in the Department of Chemistry at 255-4174 as soon as possible.

# Modern Industries Are Dispersing Away from Cities and into Country

By SUSAN S. LANG
Footloose and city-free. That's how to-

day's new industries can be characterized, according to a Cornell study.

In the past, industries were concentrated in large, older cities of the industrial heartland. Today, the key word is dispersion, according to Ruth Young, a researcher in the College of Agriculture and Life Sciences.

"The death rate for industries today is fairly uniform across the nation, but there is an industrial birth rate resulting in a pattern of dispersal. This pattern extends beyond the United States and into developed nations in Western Europe," she says.

"Many new industries are starting up in empty areas that have 'clean slates'." says

empty areas that have 'clean slates',' says Young, a senior research associate in Cornell's Department of Rural Sociology.

The non-metropolitan and rural areas are more attractive to new companies because these areas don't face the problems that plague the older urban centers. Older cities, for example, have established bureaucracies and vested interests that often interfere with new construction, says Young.

"The have aging facilities, poor and costly living conditions, restrictive zoning laws, social problems such as high crime rates and poverty, and a high cost of construction and living," Young concludes from her study.

Young's study is based on information about industrial loctions in 52 upstate counties of New York from 1973 to 1980 and in 48 states across the nation from 1960 to 1975.

1975.

"The heavy industries of the past sought out cities because transportation costs were cheaper for the bulky raw materials they required. However, the transportation and communications revolutions make today's high-tech industries much more flexible in terms of their locations."

"As long as there's access to main highways and modern communication systems, there's potential for industrial growth," Young points out.

Despite the new trend, industry isn't totally abandoning cities.

"There's a bottoming out in some cities such as New York and Boston," Young notes. "These areas have reorganized their resources and are on the rise again by focus-

ing on new industries such as banking, finance, and insurance."

This is true for much of the industrial heartland, from the Northeast to the Midwest, Young observes.

In New York, the Southern Tier highway system has opened up that entire region of the state, linking the New York metropolitan area to western New York. Also on the rise is the Rochester area and the region directly to its south. On the other hand, the Mohawk valley region, an old industrial region, is facing a decline in industrial development.

Although there has been much publicity about the economic boom in the southern United States, the deep South is suffering a serious setback because it has been heavily dependent on government defense money and unskilled labor.

"Its lack of diversity has made it particularly vulnerable," Young points out.
Texas, the Southwest, and parts of Cali-

Texas, the Southwest, and parts of California also are suffering because they weren't diverse enough. Government money has been a major force in these areas, and recent government budgetary cutbacks have

been hurting those regions.

The Rocky Mountain states and the Research Triangle in North Carolina, on the other hand, are enjoying a streak of new development with a ride range of indust ies that have chosen these areas for their home.

Where will industry go tomorrow?
"Industies will seek clean, open spaces where they can build their own industrial parks," Young predicts. "They also will move into the newer types of sprawling cities such as Houston and Los Angeles."

But that's not to say that older cities will stand by idly and continue to deteriorate.

"As long as there's diversity and flexibility, the old cities will make a comeback," Young says. "Look at Manhattan. A number of new office buildings have been going up recently as the city shifts its emphasis to service industries."

Older areas are not likely to revive by trying to reconstitute the past, Young predicts. "Rather, they need to discover and adapt to new types of economic enterprises," she

# Minority Enrollment, Faculty Both Increase at University

More members of minority groups are learning, teaching, and working at Cornell today than two years ago, Associate Provost Joan R. Egner told the Board of Trustees during its meeting in Ithaca May 31.

Egner attributed the increases to the help of Cornell alumni and students in identifying and encouraging prospective minority students, the university's summer program for minority high school students, participation in national programs aimed at finding academically talented undergraduates from minority groups who are possible candidates for graduate school, and efforts by search committees to identify and attract minorities to Cornell.

"While we have made significant progress in the recruitment of minority and women faculty, students, and employees, many areas need continuing attention," Egner said in her 26-page report on the status of women and minorities at Cornell.

"We must do more to increase the number of minorities and women at all levels on campus, and to increase the participation of women- and minority-led firms that do business with Cornell."

ness with Cornell."

The number of minority students who applied to Cornell as incoming freshmen increased by 700, from 3,144 to 3,844, from 1983-84 through 1985-86. Twenty percent of all those offered admission in 1985 were minorities, compared to 18.3 percent two years earlier. Of those entering Cornell, 17.7 percent were minorities, compared to 17.1 percent in 1983.

In the Graduate School, the number of minority applicants increased from 433 in 1983 to 497 in 1985; offers of admission were sent to 203 minority students in 1985, up from 178 in 1983. While the total number of students entering the Graduate School decreased by about 100 from 1983 to 1985, minorities continued to make up slightly more than 11 percent of the Graduate School's student body.

Minority enrollment increased during the period in the professional schools of law (up 33 percent), management (up 81 percent), and veterinary medicine (up 61 percent).

The number of women entering Cornell as incoming freshmen dropped from 1,411 in 1983 to 1,266 in 1985, but women continued to represent about 46 percent of the total undergraduate population. The number of women entering the graduate school increased from 399 to 423, with women making up about 35 percent of the graduate enrollment in the just-completed academic year.

Minorities made up 6.3 percent of the university faculty, up from 5.9 percent in 1983. The number of minorities increased from 25 to 34 associate professors and from 27 to 29 assistant professors during the period, while the number of minorities at full professor rank dropped from 38 to 35.

Almost 21 percent of the 211 women faculty were full professors in 1985-86, 34 percent were associate professors, and 45 percent were assistant professors. The number of women on the faculty increased 10.5 percent since 1983-84, compared to a 1.4 percent increase in the total number of faculty.

The number of minorities and women employed in Cornell's non-academic work force also increased from 1983-84 through 1985-86, including increases of women and minorities in professional and technical positions, Egner said.

"Academic recruitment, and in particular recruitment for faculty positions, presents special problems," the associate provost added. "Those problems are related to the low availability of women and minorities in positions for which Cornell is recruiting ... to the competition and market factors from business, industry, and other higher education institutions, and to the problems of finding two positions for two-career couples."

STICK 'EM UP-The dog's name is Jessica and she responded to the command from owner Chris Pelkhaus, who works with the James A. Baker Institute for Animal Health. The photograph was made in a meadow near the McConville Barn.

# EAP Services to be Expanded

On the fourth anniversary of Cornell's Employee Assistance Program, University Personnel Services has announced the expansion of the counseling component of the program.

Cornell faculty and staff members (and their dependents) will now have up to eight hours (increased from six) of counseling at no cost, for the identification and resolution of a wide range of job-related as well as personal and family problems.

Issues which may be typically addressed through EAP include legal, debt-counseling, marital/family, child rearing, alcohol and drug abuse, as well as emotional. The Em-

ployee Assistance Program staff will also provide additional training, education and consultation on the subject of alcohol and substance abuse throughout the next two years.

Four EAP counselors are available at the office of Family and Children's Service of Ithaca, 204 N. Cayuga Street, and, by appointment, at Anabel Taylor Hall. Employees should call 273-1129 to arrange an appointment with a counselor at either location. All contacts, whether by phone or in person, are strictly confidential. Additional information about EAP may be obtained by contacting the office of Employee Relations at 255-7206.

# L. H. MacDaniels

Laurence H. MacDaniels, 97, professor of horticulture emeritus, died at his home Wednesday, June 18, 1986. He retired from the Department of Floriculture and Ornamental Horticulture in 1956.

He was on the faculty at Cornell from 1914 until his retirement, and was head of the Department of Floriculture from 1940 to

His work with horticultural groups locally and nationally was extensive, both during his active academic career and after retirement. He was president of the Cayuga Lake Preservation Association and co-chairman of the New York Chapter of Nature Conservancy,

from which he received the Land Award in

He also was a fellow of the American Association for the Advancement of Science, chairman of the Lily Committee of the American Horticultural Society from 1938 to 1946 and president of the American Society for Horticulture Science in 1940.

Memorial services will be in early September at the First Unitarian Church, where he and his wife, Frances Cochran MacDaniels, who died May 15, were members since 1921. Donations may be made to Hospicare of Tompkins County, 1287 Trumansburg Road, Ithaca, N.Y. 14850.

# Pigeon Droppings Are Ruled Out In McGraw Hall Health Problem

Environmental health officials at Cornell University have ruled out any disease process associated with pigeon droppings in their continuing investigation of respiratory problems reported by some employees on the first floor of McGraw Hall.

The cause of the problem is believed to be localized, according to Judy Crawford, director of the university's Office of Environmental Health.

Problems began in mid-May when a contractor was removing decades of pigeon droppings from the attic of McGraw Hall. Some droppings scattered in the air when a chute used in the removal process pulled away from the building, prompting claims that the droppings were the cause.

Tompkins County Health Department officials had indicated earlier this month that the respiratory irritations reported by up to one dozen employees did not fit a pattern indicating an infectious disease attributable to pigeon droppings.

Cornell officials are focusing their investigation on possible airborne contaminants in the 115-year-old building. In addition, a Syracuse allergist is being consulted about a mold survey completed last week.

A nurse practitioner from the Gannett

Health Center conducted health screening tests of about a dozen employees who said they had respiratory problems. Although some employees stated they had preexisting medical conditions that might be a problem, the investigation into the cause of the discomfort continues.

Crawford said, "Because the problems reported by employees are of concern to them, we continue to treat the matter seriously. We will investigate all possibilities and confinue to seek guidance from other experts as needed."

### Group Folk Guitar Lessons Scheduled

Group folk guitar lessons by Phil Shapiro will be given six Monday nights starting June 30 in the International Lounge of Willard Straight Hall.

Beginners meet at 7 p.m. and intermediates at 8 p.m. Persons who are not sure which group they should be in may attend both sessions the first night to make sure. The entire course costs \$20, payable at the first session. More information is available from Shapiro at 844-4535.

יייני די יור וחבי

### Number 25 Cornell University

University Personnel Services Day Hall Ithaca, New York 14853

Please Note:

Job Opportunities is a publication of Staffing Services and is distributed each Thursday through the Cornell Chronicle. Job Opportunities lists current vacan-cies with the University, consistent with the University's commitment to promo-tion from within, affirmative action and equal opportunity employment.
Employee Transfer Applications: Employees who wish to transfer to other jobs within the University should complete a separate Employee Transfer Application form for each position and submit the form(s) to Staffing Services. Individuals with official University layoff status are given preference in referrals.

Applicants: Applications for employment are available at Cornell University's

employment office at East Hill Plaza at the intersection of Ellis Hollow Road and Judd Falls Road in Ithaca, from 9:00 a.m. to 12:00 noon, Monday through Fria.m. 10 12:00 noon, Monday through Friday. Completed applications can be submitted through the mail to University Personnel Services, Staffing Services, 160 Day Hall, Ithaca, NY 14853.

This listing is also available on CUINFO, Cornell University's computerized information service. For further details on CUINFO, contact the Information

and Referral Center.

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

# Job Opportunities

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/Professional

The minimum salaries listed are for recruitment purposes only

PLANT PATHOLOGY: TEACHING LABS COORDINATOR (PT254)

Plant Pathology

Provide innovative, scholarly, independent support for plant pathology laboratory courses by organizing materials (plants, pathogens, equipment), orienting teaching assistants, and working with professors to develop new aspects of courses and (optional) aid in the teaching of plant patholo-

Requirements: Master's degree or equivalent in plant pathology. Experience in teaching plant pathology laboratory courses, in working with diverse types of plant pathogens, and in working with plants in the greenhouse and field. Familiarity with techniques generally encountered in undergraduate and graduate introductory level plant pathology courses is expected. Please submit cover letter and resume to Cynthia Smithbower by July

DATA ANALYST III (PT252)

Financial Aid

Provide primary support in the development of research necessary to analyze current programs and project needs of future programs. Compile information for and complete numerous surveys received by the Financial Aid and Student Employ-ment Offices and help develop surveys for use in gathering information.

Requirements: Bachelor's degree or equivalent. Some experience in conducting data analysis and research in a University setting preferred. A working knowledge of computer statistical analysis software, such as SAS and statistical analysis development. Some programming experience pre-ferred. Please send cover letter and resume to Cynthia Smithbower by July 7, 1986.

DATA ANALYST: INFORMATION SUP-PORT (PT2311)

Institutional Planning & Analysis Coordinate and complete external surveys (in-

cluding state and federal reports) and data input to computerized data systems. Provide support for planned projects and ad hoc inquiries. Assist in the design and production of computer spreadsheets and accompanying graphics. Orga-nize and maintain special requests and project files. Serve as an office liaison with other adminis-

Requirements: Bachelor's degree or equivalent. Excellent organizational, planning and communication skills. Knowledge of computer software applications desirable. Experience in an office environment desirable, especially one where accuracy and attention to detail are essential. Please send cover letter and resume to Cynthia Smithbower by July 7, 1986.

**ASSOCIATE ADMINISTRATOR (PA249)** Residence Life

Primary responsibility for all financial and business operations: development of \$19 million operating budget and \$40 million capital budget; financial policies and procedures; management information systems; rates and income enhancement; personnel and salary administration.

Requirements: MBA or equivalent. Demonstrated experience in business management, preferably in a college or university setting. Send cover letter and resume by July 1, 1986 to Ralph D.

MANAGER STUDENT LOANS (PA2413)

Office of the Bursar

Provide functional supervision for the loan office: development of work plans and schedules, supervision of long and short term loan programs. Perform adjustments to and answer correspondence from borrower accounts; prepare various reports; perform student loan accounting func-

Requirements: Bachelor's degree or equivalent. Experience in student loan program operations including knowledge of state and federal loan regulations. Strong supervisory skills. Microcomputer

Cornell University is an equal opportunity, affirmative action employer knowledge helpful. Send cover letter and resume to Ralph D. Jones by June 27.

Please Post

ADMINISTRATIVE SUPERVISOR II (PA2414)

Theatre Arts

General department administration, financial management, and coordination of academic services and personnel matters.

Requirements: Bachelor's degree. Familiarity with C.U. academic office procedures helpful. Send cover letter and resume by June 27 to Ralph

PERSONNEL ASSOCIATE I (PA247) Personnel Services

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

Requirements: BA or BS in personnel or business management. Advanced degree preferred. 2-3 years in various personnel and human resources areas of specialization (compensation, staffing, benefits, employee relations, training). Business management experience helpful. Analytical, organizational abilities; verbal and written communication skills. Send cover letter and resume to Ralph Jones by June 27.

RESEARCH SUPPORT SPECIALIST, III (PT024) (Repost)

Nuclear Science and Engineering

Design, construct, and maintain digital and analog electronic laboratory equipment including radiation detectors, nuclear reactor control systems, and minicomputers and microprocessors; assist in software development, activation analysis and other reactor uses.

Requirements: Bachelor's degree or equivalent in electrical engineering or related field. Some experience in digital circuit design and troubleshooting; experience in activation analysis and in reactor uses desirable. Apply by July 11, 1986 to Cynthia Smithbower

RESEARCH SUPPORT SPECIALIST II

Center for Environmental Research

Responsible for constructing and testing a model of plant response to pollutant exposure as part of a research team. Will interact with team members and incorporate their data into the model. Requirements: Bachelor's degree, master's pre-

ferred. Some coursework in plant ecology or botany and in mathematics. Knowledge of FOR-TRAN, experience with computers and computer modeling. Please send cover letter and resume to Cynthia Smithbower by July 3, 1986.

APPLICATIONS PROGRAMMER II (PT246) Division of Summer Session, Extramural Study, and Related Programs

Develop, modify, and maintain computer operations for the division. Responsibilities include project analysis, development, and implementation of computer programs and projects.

Requirements: Bachelor's degree with con work in computer science. Minimum 3 years experience. Knowledge of dBase III and WordPerfect; extensive knowledge of IBM PC and Macintosh hardware and operation. Familiarity of mainframe system. Please send cover letter and resume to Cynthia Smithbower by July 3, 1986.

RESEARCH SUPPORT SPECIALIST I (PT243)

Food Science

Provide technical support to dairy farmers by teaching the techniques needed to operate ultrafiltration systems to fractionate and concentrate milk on farms. Gather milk and milk product samples and analyze them for chemical and biological results. Analyze data. Until December 31, 1987.

Requirements: Bachelor's degree in microbiology or agricultural engineering. Prior experiencehands-on experience with membrane systems on a dairy farm is required. At minimum operating UF systems on dairy farm. Please send cover letter and resume to Cynthia Smithbower by July 3,

RESEARCH SUPPORT SPECIALIST I (PT244)

Food Science

Provide technical support to Cornell staff for cost accounting and economic analysis of the value of integrating ultrafiltration systems on dairy farms. Develop data collection systems concerning the operation of UF systems, feeding milk permeate to cattle, transporting the retentate and making soft and hard cheese from milk concentrates. Until December 31, 1987.

Requirements: Bachelor's degree in accounting or agricultural economics. Master's in agricultural economics desirable. Experience in collecting and handling data necessary. Knowledge of dairy industry desirable. Familiarity with use of computers. Please send cover letter and resume to Cynthia Smithbower by July 3, 1986.

SENIOR TECHNICAL CONSULTANT (PT2312)

Mathematical Sciences Institute

Provide applications and systems programming assistance to visitors to Mathematical Sciences Institute; maintain system on UNIX host on Theory-

Requirements: Bachelor's degree in engineering or physical sciences; some coursework in computer science. 3 to 5 years UNIX systems programming; FORTRAN; 1 to 2 years VM/CMS and/or FPS-APFTN applications programming experience desired. Please send cover letter and resume to Cynthia Smithbower by Luly 3, 1096 to Cynthia Smithbower by July 3, 1986.

**SYSTEMS MANAGER (PT237)** Campus Store

Plan, organize, and schedule all computer projects for the campus store. Analyze user requirements; design, develop, and maintain software. Conduct training sessions for both technical and nontechnical staff. Support staff in identifying and resolving both technical and nontechnical

Requirements: Bachelor's degree with computer related courses or the equivalent combination of education and experience is necessary. Reasonable experience with applications programming, procedures and techniques and system utility programs is necessary. Supervisory experience helpful. Please send cover letter and resume with salary history to Cynthia Smithbower by July 3, 1986.

### Clerical

CURRENT EMPLOYEES should submit an employee transfer application, resume and cover letter. Also, if you are interested in a career development interview, please contact Esther Smith at 5-6874 to schedule an appointment.

OUTSIDE APPLICANTS should submit an

employment application and resume. Applications and resumes typically remain active for three months; typing test scores remain on file for one year. The clerical section uses an automatic referral system whereby outside applicants are referred to positions for which they are considered qualified and competitive. Unless otherwise advertised, requests to be referred to a specific position will not be accepted. Applicants who are referred to a department for review will be contacted by the

department if an interview is necessary.

NOTE: OPEN INTERVIEWING FOR OUTSIDE APPLICANTS interested in clerical positions will be conducted every Wednesday afternoon from 1:00 - 6:00pm. in our East Hill Plaza Employment Office. No appointment is necessary, however a short wait may be required. Call Esther Smith or Lauren Worsell if you have any ques-

ADMINISTRATIVE AIDE, GR22 (C2514) CALS Alumni Affairs and Development

Provide administrative staff assistance to the overall management of CALS Development and Alumni Affairs. Responsible for coordinating events for college and alumni association, coordinate appointments; supervision of student help; coordination of department information. Requirements: Associate's degree or equivalent

combination of education and experience. Heavy typing. Prior experience in office management desirable. Knowledge of IBM computers and systems managements desirable (Word Perfect, Lotus 1-2-3). Strong interpersonal skills. Discretion in dealing with confidential matters.

Minimum Biweekly Starting Salary: \$539.94

SECRETARY, GR20 (C2513)
Public Affairs Regional Offices - NY-Ontario

Office, Ithaca

Type correspondence, forms, vouchers, and other records; provide file maintenance and receptionist support; handle meeting and travel arrangements for director; interaction by phone and in person with alumni. Special projects as needed.

Requirements: Associate's degree or equivalent. Medium typing. Minimum 2 to 3 years secretarial experience. Excellent organizational, interpersonal and communication (written and oral) skills. Ability to work independently. Ability to use IBM XT or equivalent desirable.

Minimum Biweekly Starting Salary: \$482.33

WORD PROCESSOR OPERATOR, GR18 (C256)

Civil and Environmental Engineering

Input and format technical (mathematical an scientific) manuscripts, coursework, and numer ous other projects on Micom and Zenith PC; ass in general service-oriented main office responsib

Requirements: High school diploma or equiv lent; word processing coursework helpful. Asso ciate's degree desirable. Heavy typing. Some se retarial experience. Knowledge of word processis equipment. Strong organizational and interpers

Minimum Biweekly Starting Salary: \$431.43

SECRETARY, GR18 (C2511) University Development Provide secretarial assistance to the Office of Special Gifts. Handle correspondence; arrange travel and meetings; maintain files and research materials.

Requirements: High school diploma or equivalent. Business or secretarial school desirable. Me dium typing. Excellent secretarial, organizations and interpersonal skills. Ability to work independent

Minimum Biweekly Starting Salary: \$431.43

SECRETARY, GR18 (C2510)

Human Development and Family Studies

Provide secretarial support for graduate and un dergraduate program administrators and 1-2 fac ulty. Serve as receptionist for HDFS department main office. Answer telephone; type; file. Other duties as assigned.

Requirements: High school diploma or equiva lent. Business or secretarial school desirable. Me dium typing. Excellent interpersonal skills. Stron typing skills. Ability to work under pressure. Fa miliarity with personal computer word processing

Minimum Biweekly Starting Salary: \$431.43

OFFICE ASSISTANT, GR18 (C257) Hotel Administration

Provide clerical-secretarial support to the faculty and administrative aide. Type complex material such as charts, graphs and balance sheets use WANG computer; type correspondence, and exams (at a minimum); schedule meetings for faculty and student appointments; act as department receptionist in answering, responding and referring telephone inquiries. Maintain office supplies sort and distribute mail. 9 month appointment.

Requirements: High school diploma or equivalent. Business or secretarial school desirable. Medium typing. Minimum one year of office experience. Good organizational, communication, interpersonal and filing skills. Knowledge of

WANG word processor.

Minimum Biweekly Starting Salary: \$431.43

SECRETARY RECEPTIONIST, GR18

Hotel Administration

Provide clerical-secretarial support to the faculty and administrative aide. Type complex materials such as charts, exams, and correspon-dence. Uses WANG computer; monitor student timecards; act as department receptionist in answering, responding and referring telephone inquiries. 9 month appointment.

Requirements: High school diploma or equiva-lent. Business or secretarial school desirable. Medium typing. Minimum of 1 year of office experience. WANG word processor skill preferred or willingness to learn. Good communication and in-

terpersonal skills.
Minimum Biweekly Starting Salary: \$431.43

SECRETARY, GR18 (C254) **Human Service Studies** 

Provide secretarial support for three to six faculty in large department. Type class materials, reports, correspondence, manuscripts, standard and travel vouchers; answer telephone; pick up and sort mail; arrange travel; order texts; make copies; run campus errands. Other duties as needed.

Requirements: High school diploma or equivalent. Business or secretarial school desirable. Heavy typing. Previous secretarial experience (in an academic setting preferrable). Good interpersonal skills, telephone and machine-manual trancription skills. Knowledge of IBM PC and Word-Perfect desired. Ability to work under pressure. Minimum Biweekly Starting Salary: \$431.43

(C175) (Repost) University Counsel—Secy of Corporation

Provide administrative support to staff lawyers and secretary of the corporation. Prepare legal documents, reports, correspondence; make travel arrangements. Other duties as assigned. Requirements: Associates degree or equivalent.

Heavy typing. Minimum 3 to 5 years executive and-or law office experience preferred. Ability to use Macintosh computer and Xerox 645 Memorywriter. Good language usage and punctuation important. Ability to work under pressure. Organizational ability.

Minimum Biweekly Starting Salary: \$539.94

ADMINISTRATIVE AIDE, GR20 (C242) LASSP

Coordinate business services under direction of Administrative Manager. Monitor laboratory accounts using computer; supervise billing and other clerical functions; budget preparation and facilitation of research proposals; responsible for all phases of payroll, both academic and nonacademic; maintain personnel records; type general corre-

Requirements: Associate's degree in business or equivalent work experience. Medium typing. Cornell training courses helpful. Knowledge of Cornell accounting and payroll. Ability to work independently and make decisions. Familiarity with academic environment. Computer experience

Minimum Biweekly Starting Salary: \$482.33

# Job Opportunities -

SECRETARY, GR20 (C249) Human Service Studies

Provide secretarial—administrative support to the graduate field representative and undergraduate advising coordinator. Maintenance of student records; compilation of special reports (CASA etc.); coordination of grade submission; submission of catalog copy and student guide; share in answering department phones and picking up department mail; authorize classroom changes and

reserve rooms for special events.

Requirements: Associate's degree or equivalent. Heavy typing. Minimum 2 to 3 years secretarial experience. Knowledge and experience with IBM PC or compatible using WordPerfect and data base software essential. Ability to use dictaphone, calculator. Shorthand skills.

Minimum Biweekly Starting Salary: \$482.33

SECRETARY, GR20 (C2416) Vice President for Research and Advanced

Provide secretarial and administrative support to the Office of the Vice President for Research and Advanced Studies. Type heavy volume of correspondence and technical reports. Proof, edit, and compose letters; mail and filing system; travel; screen calls; daily schedule; reception of visitors; supplies. Other duties as assigned.

Requirements: Associate's degree or equivalent. Heavy typing. Minimum 2 to 4 years administrative and secretarial experience. Excellent organizational, interpersonal and communication (written and oral) skills. Knowledge of IBM displaywriter or IBM PC. Ability to transcribe, work independently and set priorities. Cornell experience pre-

Minimum Biweekly Starting Salary: \$482.33

ADMINISTRATIVE AIDE, GR20 (C193) (Repost)

Provide secretarial support to assistant executive director of C.U. Council. Type and mail correspondence, reports, meeting notices, etc. Maintain files, membership lists; answer and screen telephone calls; special focus on assisting in preparation for council annual meeting.

Requirements: Associate's degree or equivalent. Heavy typing. Minimum 1 to 3 years secretarial experience. Good spelling, grammar; proofreading. Proficient in either IBM PC or Micom word processor. Ability to work independently and perform well under pressure.

Minimum Biweekly Starting Salary: \$482.33

ACCOUNTS ASSISTANT, GR19 (C247) Computer Science

Provide bookkeeping procedures for CS department involving substantial research funding, large capital inventory of computer equipment. Process invoices; maintain inventory control; gather infor-mation for budget preparation and reports to ad-

ministrators and principal investigators. Requirements: Associates degree in accounting or business, or equivalent work experience. Light typing. Minimum 3 to 5 years experience, pre-ferably at Cornell. Grant and contract experience desirable. Experience with IBM PC and Lotus 1-2-

Minimum Biweekly Starting Salary: \$457.09

### General Service

Outside applicants for general service positions should apply in person at the East Hill Plaza Employment Office, Monday-Friday, 9 am - noon. Phone requests and cover letters are not accepted unless specifically requested. Regular Cornell employees should submit an employee transfer appli-

MATERIAL HANDLER-LEADPERSON, SO21 (G251)

General Stores-Endowed

Under general supervision, act as leadperson to coordinate activities of material handler positions and provide receiving, delivery and storage services to all University departments. Monday - Friday 7:30 am - 4:00 pm.

Requirements: High school diploma or equivalent. 4 to 5 years warehouse experience. Knowledge of receiving and shipping principles. Good communication, interpersonal and supervisory skills. Knowledge of trades terminology and math required. Knowledge of power fork lift operation. New York State Class 5 driver's license required. Apply by employee transfer no later than July 3,

Minimum Starting Salary: \$6.72 per hour.

### 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.

CHESS OPERATOR, GR24 (T252, T253) (Two positions)

CHESS - Applied & Enging. Physics Provide technical assistance to users on experimental radiation beams. Implement safety codes.

Responsible for any malfunctions in the CHESS system and software problems associated with instrument control. May assist in experimental programs. Evening and weekend hours required.

Requirements: Bachelor's degree or equivalent

in technical field such as physics or engineering. Programming experience preferred. Good mechanical and lab skills. Familiarity with vacuum equipment. Apply by July 7, 1986 Minimum Biweekly Starting Salary: \$607.21

TECHNICIAN, GR22 (T251) Plant Pathology (Geneva)

Assist in conducting research in a cytology laboratory and oversee the usage and service of equipment; such as, electron microscopes.

Requirements: Bachelor's degree in biology or relevant field. Experience or training in light transmission electron microscopy preferred. Previous experience in a microbiology or cytology laboratory would be helpful. Experience with immunocy-tochemical methodologies would be very useful. Minimum Biweekly Starting Salary: \$539.94

TECHNICIAN, GR21 (T122)

Plant Breeding and Biometry Execute various protocols used in molecular biological research including gel electrophoresis, southerns-northerns, DNA sequencing, genomic and DNA cloning and DNA extractions. Prepare various buffers and media; order lab supplies; supervise and train students; participate in experimental design and data analysis. Hours 12:00

noon - 8:30 p.m.

Requirements: Bachelor's degree preferably in biology, molecular biology, biochemistry or related area. Experience or training in biochemistry or molecular biology. At least 1 year of lab experience required. Please send cover letter and resume to Cynthia Smithbower by July 7, 1986
Minimum Biweekly Starting Salary: \$512.32

TECHNICIAN, GR21 (T186) repost

Diagnostic Laboratory

Perform a variety of serological tests, tissue culture, fluorescent antibody and viral isolation procedures. Prepare clinical specimens, media, buffers and other reagents.

Requirements: Bachelor's degree in microbiology or related field. Two years related work experience. Apply by July 7 1986 Minimum Biweekly Starting Salary: \$512.32

TECHNICIAN, GR20 (T254) Plant Pathology (Geneva)

Assist in conducting epidemiological studies on brown rot blossom blight of cherries, as well as assist in conducting experiments involving the casual agents, biology, and control of Phytophthora root and crown rots of deciduous fruit trees and rasp-berries. Assist in evaluation of field experiments examining the efficacy of various control strategies for fruit crop diseases.

Requirements: Bachelor's degree in botany, plant science or plant pathology. Experience with inoculation and evaluation techniques involving diseases caused by Monilinia fructicola and Phytophthora spp. is essential.

Minimum Biweekly Starting Salary: \$482.33

TECHNICIAN, GR19 (T255)

Collect and analyze data from children at elementary area schools and preschools. Library work; paper work; preparation of research reports. Full-time, regular position until June 30,

Requirements: Bachelor's degree. Comfortable around children. Good mathematical skills. New York State Drivers license and ability to drive research van. Knowledge of computers. Apply by

Minimum Biweekly Starting Salary: \$457.09

COMPUTER OPERATOR, GR22 (T242) Computer Services: Academic Computing

Coordinator of a campus computing facility.

Duties include general knowledge of microcomputers (IBM, Apple, DEC and Hewlett-Packard), answer general consulting questions, help users access Cornell's various computer systems, train new staff and help develop new policies and proce-

Requirements: Associate's degree in data processing or equivalent experience. One year previous computer experience, preferably at Cornell; working knowledge of Cornell's computer system, strong oral communication, interpersonal and organizational skills. Apply by July 3, 1986.

Minimum Biweekly Starting Salary: \$539.94

ANIMAL HEALTH TECHNICIAN, GR20

Veterinary Medical Teaching Hospital Responsible for the maintenance of aseptic conditions and supervision of the surgery team in the operating rooms during surgical procedures. Clean and sterilize surgical and hospital equipment. Prepare and sterilize surgical linens. On call for emergencies and holidays.

Requirements: Associate's degree in animal health technology. Licensed NYS Animal Health Technician or eligible for licensure. Apply by July

Minimum Biweekly Starting Salary: \$482.33

TECHNICIAN, GR18 (T192) (Repost)

Perform analytical tests on dairy products including kjeldahl nitrogen analysis, SDS-PAGE gel electrophoresis of milk proteins and gas chromatographic determination of fatty acid composition of milk fat. Summarize data using an IBM personal computer. Regular position through June 23,

Requirements: Bachelor's degree in food science or related field. Experience with Kjeldahl analysis, SDS-PAGE gel electrophoresis, gas chromatography and Lotus 1-2-3 computer software desirable. Apply by July 3, 1986.

Minimum Biweekly Starting Salary: \$431.43

#### Part-time

ILLUSTRATOR, GR22 (G253) Entomology

Prepare illustrations of insects and insect parts. Label illustrations and compose plates for publications and presentations. Part-time, regular position until September 30, 1987. Monday through Friday - 20 hours per week.

Requirements: Associate's degree or equivalent in biology with strong background in scientific illustrations. Demonstrated proficiency in scientific illustration; experience working with compound and stereoscopic microscopy; familiarity with fundamental beetle morphology; proficiency in use of carbon dusting technique. Apply in person by July 3, 1986 at the East Hill Plaza Employment Office, Monday through Friday, 9:00 a.m -12:00 p.m.

Minimum Biweekly Starting Salary: \$539.94—

annual equivalent.

ACCOUNTS ASSISTANT, GR20 (C253)

International Agriculture Program Responsible for the coordination of travel and international transactions for the International Agriculture Program. Monday through Friday-9:00 a.m.-1:00 p.m. or 1:00 p.m. -5:00 p.m.

Requirements: Associate's degree or equivalent experience. Medium typing. Minimum of five years work experience. Excellent interpersonal skills. Some accounting experience essential. Must be accurate typist. Experience with computers preferred. International or government experience desirable. Knowledge of USAID regulations helpful.

Minimum Biweekly Starting Salary: \$482.33/annual equivalent.

DATA ENTRY OPERATOR, GR18 (C251) Computer Services

Key enter or key verify data via CADE keystations. 20 hours per week. Shift work-weekends.

Requirements: High school diploma or equivalent. Data entry of keypunch experience, preferably CADE system experience at least one to two ears. Medium typing.

Minimum Biweekly Starting Salary: \$431.43/annual equivalent.

MATERIAL HANDLER, SO18 (G252) Unions and Activities

Receive and unload materials. Verify accurate shipment from invoice and assure materials are in acceptable condition. Deliver materials to designated location. Organize and collect returnable bottles for pick up. Stock shelves. Assist in supervision of students, take inventory and perform other duties as required. Monday through Friday, 7:00 a.m. to 12:30 p.m.

Requirements: High School diploma or equivalent; arithmetic skills. Some receiving experience, ability to lift 65 pounds. Exposure to cold (coolers and weather). Apply in person at the East Hill Plaza Employment Office, Monday through Friday, 9:00 a.m. to 12:00 p.m.

Minimum Starting Salary: \$5.71 per hour.

APPLICATIONS PROGRAMMER/ANA-LYST II (PT2410)

Undergraduate Admissions

Develop and maintain an admissions micro-based office system. Responsible for systems configuration, software support, training and specialized applications. Part-time, regular; 2 year ap-

Requirements: Bachelor's degree or equivalent with computer related courses. Knowledge of applications for interactive and batch administrative systems, database management systems, VM/CMS on the mainframe. Experience with word processing, spreadsheets and database on micros. Knowledge of at least 2 languages - PL/1, Natural preferred. Knowledge of at least 2 micro computers - Apple Macintosh and IBM PC preferred. Please send cover letter and resume to Cyn-

thia Smithbower by July 3, 1986. SECRETARY, GR19 (C248)

Mechanical & Aerospace Engineering

Provide administrative and secretarial support for approximately 3 faculty members, related visitors and graduate students. Technical typing; word processing; bookkeeping, writing—editing and proofreading; travel arrangements. Other duties as assigned. Part-time, regular; 5 days per

week; 5 hours per day.

Requirements: Associate's degree or equivalent desirable. Heavy typing. Minimum 2 to 3 years office experience (prefer Cornell experience). Knowledge of technical typing, word pr cessing, bookkeeping, proofreading. Good organizational, interpersonal and communication skills. Ability to work independently and set priorities.

Minimum Biweekly Starting Salary:

\$457.09/annual equivalent

TECHNICAL ASSISTANT, GR14 (G241)

Prepare glassware for use in a plant biology research laboratory; operate automatic dishwasher, autoclave, pipet plugger. Clean small items by hand. Water plants, prune plants or help collect plant material. Monday - Friday; 20-25 hours per

Requirements: High school diploma or equivalent. Must be very conscientious and have a good sense of detail. Previous work experience desira-ble, especially glassware handling. Willingness to perform job carefully and be trained to operate dishwasher, autoclave and pipet plugger. Apply to East Hill Plaza.

Minimum Biweekly Starting Salary: \$353.76/annual equivalent

#### 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.

SECRETARY, GR18 (C259)

Education

Provide secretarial support for Cooperative Extension training project. General word processing using Microsoft-Word on Macintosh for curriculum materials, correspondence and reports.

Requirements: High school diploma or equivalent. Medium typing. Prior experience with Macintosh desirable. Accuracy and ability to work in-dependently is essential. Part-time, temporary

Minimum Biweekly Starting Salary: \$431.43/annual equivalent.

TEMPORARY COMPUTER OPERATOR,

School of Hotel Administration

Provide technical assistance for hardware and software on the WANG computer to approximately 45 users. Perform routine mainframe computer operations and system maintenance such as back-ups and reports. Respond to phone inquiries on technical support and routine activities. Monday - Friday 9:00 a.m. - 3:00 p.m. (20-25 hours per week) until December 31, 1986.

Requirements: Knowledge of routine mainte-

nance for computers, including troubleshooting, preventive maintenance and set-up. Knowledge of word processing and concepts is desirable. Submit cover letter and resume to Cynthia Smithbower by

July 7, 1986.

Minimum Starting Salary: \$6.00 per hour.

### Academic

ASSISTANT PROFESSOR OF CELL BIOLO-

Contact: M. V. Parthasarathy, Section of Plant Biology. Earliest starting date January, 1987.

ASSISTANT OR ASSOCIATE PROFESSOR OF PATHOLOGY (A242)

Veterinary Pathology Contact: Dr. Brian A. Summers, chairman of Search Committee, Department of Pathology, NYS College of Veterinary Medicine

EXTENSION ASSOCIATE II, CA4, half-time

Employee Assistance Education Program, NYSSILR-Extension Division Contact: Sue Willower, NYSSILR

### Cornell Receives Child Protective Funds, Seeks Increase for Supercomputer

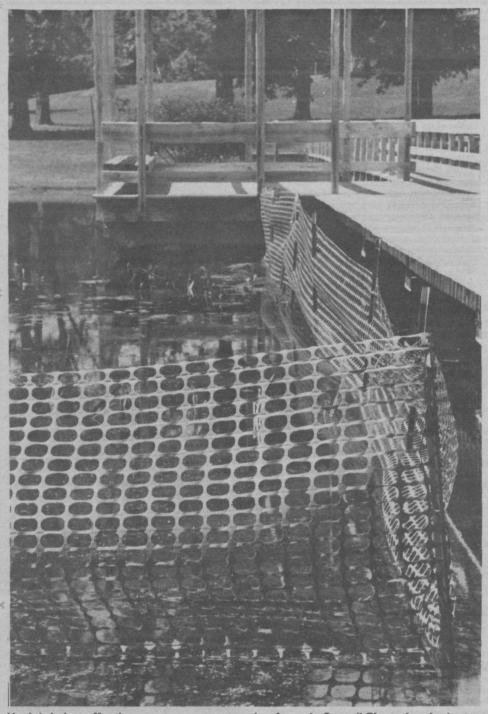
A Cornell-operated training program for and other problems. the state's child protective services personnel has received \$1,043,000 in support from the New York State Department of Social Serv-The state support will help fund the Child

Protective Services Training Institute, according to Joseph M. Ballantyne, vice president for research and advanced studies. He told the Executive Committee of Cornell's Board of Trustees at a meeting May 31 that another \$447,000 in faculty time is provided by the College of Human Ecology. The faculty salaries are included in the college's normal operating budget, Ballantyne added.

Headed by John Doris, professor of human development and family studies and director of Cornell's Family Life Development Center, the eight-year-old institute provides training at the university and in New York City for workers dealing with child abuse

University trustees also authorized a proposal to the National Science Foundation, requesting \$10 million to operate Cornell's national supercomputer center, the Center for Theory and Simulation in Science and Engineering. The funding would run the center through October 1987, Ballantyne told the trustees. One of five national supercomputer facili-

ties established by the federal government since 1985, the Cornell center was originally scheduled to receive \$6.4 million in its third year of operation. The additional funds are needed, according to Ballantyne, for facilities and staffing to upgrade the center's production supercomputer to include an IBM 3090-400 machine, and to increase networking activity for remote users of the Ithaca facility. Currently, the production supercomputer uses an IBM 3084 QX.



Unsightly but effective, an orange construction fence is Cornell Plantations' reluctant response to an animal-plant problem at the F.R. Newman Arboretum. Unleashed dogs, in pursuit of ducks living in the arboretum pond, have been damaging the valuable collection of aquatic plants. If the fence and posted signs don't keep pooches out of the pond, Plantations officials say in an appeal to animal owners, they will seek vigorous enforcement of leash laws throughout the arboretum.

### **Telecommunications System: Many Problems Solved**; Some Remain

Most of the bugs have been worked out of the campus' new telecommunications system, but it still is not being used nearly up to its capabilities by most employees.

That was the message given last Friday at the Senior Staff Briefing by Harold D. Craft Jr., associate vice president for facilities and business operations.

### Clark Terrace **Project Expected** To Close Walkway

A three-month-long maintenance project on Clark Hall Terrace to correct serious water leaks is expected to close the inner campus walkway in that area.

The job, which will be done by McGuire and Bennett, is expected to start about July 1, with the walkway to be closed about the middle of the month, and to remain closed until the job is completed near the end of

The west terrace of the building, which actually serves as a roof to portions of the structure, has deteriorated and allows leakage down into the laboratories and machine shops below.

The new construction not only will correct the existing problems, but will allow for future access to the waterproofing system without demolition of the deck as is required in this repair.

There has been a good bit of misunderstanding since the cutover to the new system in March, Craft said, but the telecommunications staff has been able to correct most

"Those people who are still experiencing problems can do one of three things," he explained, listing them as follows:

-Call the main telecommunications office at 255-3333.

Call the college coordinator, who acts as a trainer, and let him or her know.

-Ask the telecommunications office to send a representative to a department meeting to help clear up questions.

He said some systems have been redesigned to take care of particular needs, and that can still be done in other areas if it is necessary.

However, he stressed, members of the telecommunications department need to know what the problems are, and urged people to call with their concerns.

### 'Discover Plantations' Bus Tours Will Run This Saturday Afternoon

Cornell Plantations will sponsor free, interpretive "Discover Plantations" bus tours from 1 to 4 p.m. Saturday, June 28, rain or shine.

Bus guides from Plantations' staff will give visitors an overview of the F.R. Newman Arboretum and the specialty gardens, and along the way will point out new projects under construction in several areas.

One of the first areas to undergo recent change was the Bowers Rhododendron Collection, which has now been enhanced by the addition of new, smaller rhododendron cultivars that are suitable for home landscape use, and interplantings of perennials for extended seasonal color. Visitors can tour the new stone seating area, and will learn of the proposed summer house with a view overlooking Beebe Lake.

Currently undergoing renovation, the groundcover collection will eventually surround the Lewis headquarters building with both common and unusual groundcovers, including European ginger, astilbes, hostas, Japanese anemones, pachysandra, hemerocallis, and acanthus (Bear's breech). The newly created Remembrance Garden is at the entrance to the Garden Gift Shop.



Nearing completion, the Pounders Heritage Garden replaces last year's Heritage Crops Collection with a more comprehensive theme garden, reminiscent of kitchen gardens of the last century. Heritage vegetables share the spotlight with recently developed vegetables, fruiting shrubs, espaliered apples, culinary and fragrance herbs, and per ennial and annual flowers.

Buses for "Discover Plantations" tours will leave from Cornell University's B-Lot on Rt. 366, across from the Cornell Orchards, every 20 minutes starting at 1 p.m. and continuing until the last tour leaves B-

# Geographic Information Published

The International Land Use Planning Program at Cornell has published proceedings of the International Symposium on Geographic Information Systems for Conservation and Development Planning held here in

The volume contains seven papers presented at the symposium by specialists in the fields of remote sensing, computer science, regional landscape planning, and environmental engineering.

The topics covered are:

The Cartographic Subsystem of the Canada Soil Information System and its Application to Land Evaluation,

Application and Implementation of Geographic Information Systems,

Geographic Information Systems as a Management Tool for the Adirondack Park. Geographic Information Systems and

Examples of Use,

— Digital Color Mapping and Resource Planning, and

Microcomputer Delivery of Soil Survey Information.

Gerald W. Olson, associate professor of soil science, and Arthur Lieberman, professor of physical environmental quality, both in the College of Agriculture and Life Sciences, edited the proceedings. Olson and Lieberman serve as coordinators of Cornell's International Land Use Planning Program, designed to promote rational use and management of land and natural resources in developing nations around the world.

The volume is available for \$5 a copy from the International Land Use Planning Program, 230 East Roberts Hall. Checks should be made payable to Cornell University.

## Rural Schools Program Plans Statewide Conference in July

Rural school officials, including superintendents, administrators, and members of boards of education from throughout New York state, will meet in Syracuse for a threeday conference in mid-July to discuss trends and issues facing rural schools.

The conference at the Syracuse Marriott Inn, July 13-15, is sponsored by the Rural Schools Program in the Department of Education in the College of Agriculture and Life Sciences and the New York Council on Rural Education.

The annual conference to be held under the theme of "Excellence in Small School Districts" will feature Eliot Wigginton, a nationally known educator, author, and lecturer as the keynote speaker. The Cornell graduate is a teacher of English at Rabun Gap County Schools in Georgia and the creator of "Foxfire" magazine specializing in

Wigginton will deliver his address - "The Foxfire Experience" — at 6:30 p.m. July 13. He is author of the widely read book "Sometimes a Shining Moment — The Foxfire Experience," which describes how community residents and resources have been utilized in his classroom work.

Another featured speaker will be David L. Call, dean of the College of Agriculture and Life Sciences. He will deliver a luncheon address on "The Future of Small and Rural School Districts" at 12:15 p.m. July 14.

The program features a series of presentations and panel discussions on topics ranging from computer education in schools to implementing the agricultural curriculum in the Regents Action Plan and "Agriculture in the Classroom," a statewide project under way

at Cornell to promote a better understanding and appreciation of agriculture among school children. This project is a joint effort of Cornell, New York state, and the New York Farm Bureau.

Also high on the agenda is a research report on "Organizational Alternatives for Small Rural Schools" by David H. Monk, associate professor of education at Cornell. Monk's presentation is scheduled for 8:30 a.m., July 14.

### **CUINFO Provides Posting of Housing**

Users of Cornell's IBM computer system can now post off-campus housing listings via CUINFO, Cornell's on-line public information system. By using direct input, users can post available apartments, houses, mobile homes, apartments to share, and houses to share with both the Off-Campus Housing Office and CUINFO.

To post a listing, log onto the IBM with your user account and enter "CUINFO Housing Post." A list of instructions will ap pear and you will be asked to provide specific information about the dwelling (type, number of bedrooms, rent, location, date available, etc.).

After the information is entered, the user must examine it and confirm that he or she wishes to send the listing. Listings are then electronically transmitted to the Off-Campus Housing Office where they are placed on bulletin boards and on CUINFO

In accordnace with university policy, those placing off-campus housing listings must acknowledge that the dwelling is available without regard to the race, creed, color, national origin or sex of persons who may inquire about its availability

Listings placed on CUINFO are accessible to the public from any interactive terminal that is properly signed onto Cornell's IBM system. For the convenience of persons who do not have IBM user accounts, public access terminals are available at the Information and Referral Center in Day Hall, 103 Barnes Hall, Olin, ILR, and Mann libraries, and in the lobby of Gannett Health Center.

For further information about posting an off-campus housing listing through CUIN-FO, contact Neff Casaburri at the Dean of Students Office (255-5373) or Steve Worona at User Services (255-4981).

# Community Fireworks Show Tuesday, July 1

The 39th annual community fireworks show will take place Tuesday night, July 1, at Schoellkopf Field on the Cornell campus.

The event this year will feature musical entertainment in the pre-dark show, followed by an hour-long fireworks display by the American Fireworks Co. of Utica

As in the past, special parking and traffic arrangements will go into effect to handle the expected 20,000 spectators in the stands, plus the thousands more on hills surrounding the city, according to this year's general chairman, Francis Benedict of Tompkins

County Trust Co. Rain date for the show will be Wednesday, July 2, he said.

The pre-dark show will include the rock

band Atlas and Robert Bruce and the Painted Post Calliope Company.

Area volunteer firemen will once again cover part of the artificial turf on the playing field with tarpaulin, then hose it down, and probably wind up in the usual water fight after finishing the job, Benedict said.

The fireworks display will get under way at about 9:15 p.m., when darkness usually comes that time of year. The pre-dark show starts at about 7:30 p.m.

Vincent Speciale of the fireworks company has promised a greatly expanded ground display for the people inside the stadium, and also plans a bigger opening aerial show, plus a more spectacular finale.

In the event of weather problems, announcements will be made on area radio stations. Also, an aerial salute will be fired at Schoellkopf Field every hour on the hour starting at 2 p.m. if the show is still scheduled to go that evening.

A Cornell Newsletter Published by Employees for Employees

Volume 7, Number 8

Thursday, June 26, 1986

Dedicated Service Award

# John O. Blizzard Receives Dedicated Service Award

The Department of Pharmacology is proud to honor John O. Blizzard as the Dedicated Service Award winner in recognition of his 25 years of outstanding performance at Cornell University.

John joined the College of Veterinary Medicine in 1961 when he was appointed an experimental caretaker in the Department of Physiology. After 20 years in various roles in that department, he joined the newly established Department of Pharmacology in 1981 as the laboratory coordinator.

As one of the founding members of the Pharmacology Department, he has been an integral part of its growth from six people (two faculty, two administrative and two research staff members) to its current size of forty-two with eight

John's role in this expansion was crucial in many respects. He helped build our laboratories. He designed and built many items of equipment. He knew where things were. He knew the right people to talk to for advice, materials, or

equipment. His wealth of information and knowledge of the University is a great resource for our department and the

Most of all, he exuded an attitude of confidence that things could be done, anything, and he personally would see that it was done.

He approaches every task with unflagging energy and enthusiasm. His energy, enthusiasm and dedication is so infectious that the department as a whole has picked up his qualities.

His energy, enthusiasm and dedication are so infectious that the department as a whole has picked up his qualities.

We work well together as a group, and John has played a key role in integrating and coordinating our activities.

Aside from John's contributions to the department, college and University, he is exceptionally considerate of and helpful to others. He has rushed staff members to Gannett Health Center. He has volunteered many evenings and afterwork hours to jump start a car, get a car out of a snow bank, rescue a car that has run out of gas, and unlock car doors for those who forgot their keys.

John has saved cars when they're about to be towed, changed tires, returned to unlock an office door, and checked other doors to be certain they were locked.

You name it, John has done it. His regard for safety and security of staff friends is a 24-hour commitment.

John is a member of the Rock and Gem Club and frequently travels to dig for gems. When time permits he also enjoys traveling with his wife, Fritzie.

In his free time, John remodeled his van and customized his car. John's volunteer work for the college and University includes being team captain of United Way, ushering at Cornell graduation exercises, assisting with Veterinary College and department annual conferences, tour guide of Cornell University and surroundings, as well as taxiing and rotatilling services.

John is one of the department's key personnel, everyone's friend and a great



JOHN O. BLIZZARD

asset to the department. He is a part of his coworkers' and friends' lives. The times cannot be counted when he has gone above and beyond his regular duties to

It is for the above reasons and feelings that John deserves this Dedicated Service Award.

## Employees on the Go -Promotions and Transfers

Congratulations to the following Cornell employees who were recently promoted or transferred.

Resa Alvord Tammy Baker Denise Barbaret Donald Berich Lois Brown Linda Curry Agnes Draper John E. Durbin Richard Entlich Richard Fabroni Holly J. Goff Tammy C. Haight Beverly J. Keib Gail C. Knapton Georgia Mack Sharon McGuiness John McKeown Marvin R. Moore Ann M. Nazer Sabra Peterson Pamela Phillips Geraldine Pinkham William Prairie Alice Rodabaugh Tammy Rohan James P. Sheehan Jonathan P. Smith Cynthia Stagg L. I. Swayze Marie Taylor Maryjean Wesler Gaynor L. Young-Pierce

DEPARTMENT Human Ecology Ornithology Libraries Public Safety Agricultural Engineering Dining Residence Life Public Safety Libraries Accounting Personnel Accounting Geneva Dining Vet Pathology Public Affairs Vet Administration Electrical Engineering Facilities Development Computer Science Dining Residence Life CISER Life Safety Purchasing Life Safety Payroll Vet Clinical Sciences Hotel Administration Geneva Engineering

# Employee Assistance Program Improve Your Listening Skills: Paying Attention Can Pay Off

How often have you found yourself in the middle of a work assignment with the nagging feeling that you have forgotten something?

Have you ever interviewed a job candidate and spent so much time talking about your program's goals that you can't remember the candidate's credentials?

Have you ever attended a staff meeting so preoccupied with what you want to say that you can't remember what anyone else has said?

These are but a few examples of common situations in which improved listening skills can pay off. What you don't hear can hurt you in terms of lost time, missed deadlines and even lost obs. There is a big difference between simply hearing and actually listening. Superior listening skills may help settle arguments, reduce conflicts and enhance the listener's image.

It is often helpful to reflect back to the speaker what you think you have heard.

By simply paraphrasing the speaker's words will reassure that even though your points of view may differ, the speaker has indeed been heard and understood. This is a sign of respect that can help reduce tension and avoid possible conflicts.

Many experts suggest that you take the following steps to improve your listening skills:

1. Don't assume a set response. Watching for the words, phrases or gestures that usually trigger your

### There is a big difference between simply hearing and really listening.

emotions prevents you from hearing what the speaker actually has to say Don't decide in advance what you think the speaker is going to say.

2. Don't interrupt. Make a conscious effort to let people finish their sentences. Many people consider listening to be passive and speaking to be active. As a result, we tend to assert ourselves by speaking up - often interrupting someone

3. Read between the lines. The tone in which something is said and the accompanying gestures can convey as much about the speaker's thoughts and attitudes as the words themselves

4. Limit distractions. If possible, find a quiet meeting room, close the door and hold all phone calls.

5. Discipline yourself to concentrate. Take notes, make eye contact with the speaker, and ask questions to make sure you understand what is being said.

When you make the efforts to assure the speaker that you are really listening. you send signals that you are genuinely interested in what they have to say which leads to a more constructive interaction.

If you would like to discuss further how to improve your listening skills, or any other issues causing concern, please feel free to contact the Employee Assistance Program at 273-1129. We are here to help.

# Leadership Leads The One Minute Manager: "A Great Bunch of Common Sense"

Ken Blanchard, '61, at his Cornell 25th reunion, entertained and educated his fellow alumni. His talk to a packed house at Bailey Hall was based on his book, The One Minute Manager.

He stated his philosophy: Life is an opportunity for winning. Winners breed more winners. Winners dream bigger dreams. They are winners because they set goals — a goal is a dream with a deadline. These were some of his one liners that had the audience on the edge of their seats waiting for another.

Blanchard advised not to practice seagull management. That's where you fly in, make a lot of noise, drop on everyone and fly out. He asked if any of them ever wondered why a worker, who does less than a mediocre job (with little if any enthusiasm), can go from work to the bowling alley and leap with joy at making

According to Blanchard, the answer is simple: The worker sees results when a strike is made. The pins all fall down. There is feedback. He said that too many managers behave in a way that is like putting a sheet between the bowler and the pins so that the bowler never knows how many pins were knocked down.

His advice is to tell people what you expect, listen to them for feedback, act as a coach, as a cheerleader, as a facilitator, as a mentor and help each one become a

The most important point he made was that people listen to what he says and they have no choice but to agree with him. Blanchard states, "People come up and tell me what a great bunch of

common sense they have just heard. But then they wait for another seminar before doing anything about

changing their own way of managing.

And too many are still waiting for another

### The One Minute Manager Sampler

Everyone is a potential winner Some people are disguised as loosers, Don't let their appearances fool you.

Help people reach their full potential Catch them doing something right.

People Who Feel Good About Themselves Produce Good Results

### CRC News

# NY Giant Football and Winter Holiday Florida Trip Planned

Park Fund Receives Tremendous Boost

The annual summer picnic is history now and we hope everyone enjoyed themselves and had enough to eat and drink. A huge picnic such as this could not be possible without the volunteer help of CRC members.

A large thank you to the following people who helped make the CRC annual picnic such a success: Andy Kobre, Dee & Daryl Dunn, Al & Fran Reed, Elaine & Jim Sheehan, George & Gloria Peter, Harry Dickson, Beverly Blanchard, Anne & Dave Kirtland, Dominic & Ines Versage, Anne & Dave Vandermark, Frank Sutfin, Carol & Bernie Cook, Donna & Alga Vose, Kim & Deb Graves, Kurt Kabelac, Ed Kabelac, Barb & Clarence Hildreth, Dick & Sue White, Bertha & Pete Petersen, Ed & Nancy Couch, Bill McDaniel, Mary & Rodney Tobey, Norm & Sally Pickert, Pam Kellogg, Bonnie Mather, Bill Compton, Ellie & Chuck Higgans, Cris Gardner, Carol & Art Weaver, Bill & Pat Dougherty, Jack Prince, Dick Bowlsby, Rick Lattin, Shorty Hamilton, Ron Poyer, Sam Partigianoni.

The Yankee basebell trip is filled. However, a reminder to those of you who have signed up - final payments are due by July 1st.

Toronto, Canada. Thursday, August 14 - Sunday, August 17 are the dates for this trip. The price is \$220 per person and includes transportation, three nights at



Donna Vose and Pat Dougherty working hard on park fund raising.

the Delta Chelsea Inn, a group dinner, dinner theatre, plus day trips to CN Tower, Canadian National Exhibition. Ontario Science Center, and Casa Loma.

The dinner theatre has been changed due to scheduling change of the theatres in Toronto. The group will be "Brighton Beach Memoirs" a comedy by Neil Simon about a teenage boy growing up during the Depression. Sign up, or call the CRC office today (5-7565). There are just a few places available. Final payment due June

New York Giant football. CRC will run a bus to E. Rutherford, NJ for the Giants vs. Jets preseason football game on Saturday, August 23. The bus will leave B lot at approximately 2pm arriving at Giant Stadium at 7pm.

The game will begin at 8pm and the bus will return to Ithaca immediately following the game. The price is \$30 per person (add \$5 for nonmembers) and includes transportation and game ticket. Call the CRC office for more information. Sign up will be first come, first served and a deposit will be required. Final payment and deadline for sign up will be August 7. Walt Disney World. A trip to Florida

has been planned to coincide with the winter holiday period this year. The flight will leave on Monday, December 29 and return on Sunday, January 4.

The group will spend 6 days and 7 nights in Orlando, FL at the Las Palmas Inn (offering a cafe, dining room, heated pool, close to restaurants and shopping). Included in the price are air fare, lodging,

three days at Disney World - Epcot Center, and a New Year's Eve gathering.

The price, based on double occupancy, is \$575 for adults, children's prices are \$316 (ages 3-11) and \$433 (ages 12-17). Sign ups have started so call today and place a deposit (\$100). The deadline for sign up and the final payment is October

Other summer and fall trips are in the planning stages. Watch Networking and the CRC newsletter for details of a Finger Lakes Race track trip and a dinner theatre evening in Auburn or Corning.

The park fund had a tremendous boost this month. Over \$500 was received at the annual picnic and that amount was matched by Kurt Kabelac!!

All donations are greatly needed and CRC would like to thank the following people for their recent gifts: Clarence & Barb Hildreth, Sophie & Henry Capolongo, Ed & Linda Kabelac, Tony & Roberta Chiesa, Elizabeth Maxwell, Cris & Richard Gardner, Alga & Donna Vose, John & Shirley Breen, Keith & Helen VanDerZee, Ray & Aggie Nobles, Bud & Edie Cornelius, Roderick & Marian Howe, Stanley & Lucia Wheeler, Antoinette Sellers, Ruchira Mendiones (in memory of Ruperto Mendiones), Kurt Kabelac, Jessie Howe, Dominic & Ines Versage, Ray & Bea Sickmon, Don & Marjorie Sharpsteen, Frank & Mickey Martin, Ed Sweetland, Bev & Ira Reed, George & Gloria Peter.

# Take Charge of Your Health Be Aware of the Risks of Sun Exposure

by Carol Biondi, health associate, University Health Services, previously printed in Vital Signs



Basic knowledge of solar radiation, sunburn and tanning are essential for preventing the acute and chronic health effects of the sun.

What skin problems are associated with repeated and persistent exposure to

Sunburn is one of the most common injuries to the human skin yet many of us, by design, by occupation or by desire for sport and recreation, rush to bask in the radiance of sunlight. Few consider that their health and appearance are likely to suffer in the long run from excessive sun exposure.

Medical data points to the undeniable conclusion that long-term exposure to sunlight causes irregular pigmentation, allergic reactions, scarring from burns, premature aging of skin, and skin cancer.

Which of the sun's rays are most harmful? What effects do they produce upon the exposed skin?

Solar radiation consists of two portions of the electromagnetic spectrum - the ultraviolet (UV) or invisible rays, and the visible rays. Of the total radiation produced by the sun, less than 0.2 percent within the UV range causing sunburn penetrates the atmosphere and reaches the earth's surface. Photobiologists have divided the UV light into UVA, UVB and UVC wave-lengths.

UVC rays are considered the most lethal because of the destructive effect on the skin; these rays are absorbed by the atmosphere's ozone layer which protects the earth's surface.

UVB rays are responsible for sunburn and the cellular damage which causes aging skin, skin disorders and skin cancer. UVB rays are filtered out in the early morning and late afternoon by the ozone layer.

UVA rays are responsible for some redness and tanning, and are capable of causing skin damage by interacting with a variety of drugs, soaps, cosmetics and plants, leading to a photosensitive reaction. UVA rays are also the type produced by artificial tanning equipment used commercially today.

What environmental conditions accelerate the effects of exposure to the

Several factors affect the intensity of ultraviolet radiation from the sun and increase the potential for sunburn. The combination of high humidity and wind cause a cooling effect on the skin that encourages many sunbathers to remain exposed to the sun for longer periods, thereby increasing the risk of sunburn.

Heat accentuates the harmful burning effects of the sun, so sunbathers should be aware of the increased risk on hot

Other factors that can influence sunburn potential include reflecting radiation, high altitudes and wet skin. Although solar radiation is lower in winter, snow reflects 80-90 percent of the UV radiation. Other ground surfaces that pose increased risk include sand, reflecting 25-45 percent; grass, reflecting 25-45 percent; and black dirt, reflecting 5-15 percent of UV radiation.

On cloudy days, severe sunburn can still occur because clouds reflect varying amounts of UV light. Contrary to popular belief, water is a poor reflector of UV light unless the angle of the sun above the water is less than 25 degrees.

Few consider that their health and appearance are likely to suffer in the long run from excessive sun exposure.

However, when skin is hydrated and wet, it is more permeable to UV rays and therefore more susceptible to sunburn. A factor that will influence the intensity of UV radiation exposure is the time of day. During the spring UV radiation is the greatest between 10 am - 3 pm; therefore, exposure during those hours causes more severe burning.

How and why does our skin tan? Tanning is the body's protective mechanism against harmful solar rays, but it's associated with irreversible skin damage.

Tanning occurs in two ways. First, an immediate tanning action is started when UV light strikes the pigment already present, turning it a darker brown, and second, when a fraction of UV rays penetrates down into the melanocyte layer of cells, they are stimulated to produce more melanin which migrates to

the skin's surface and becomes visible as a tan, usually 2-3 days after exposure.

The production of melanin is important in achieving some protection against sunburn. Also important is the thickening of the outer skin layers. This thickening, which is a gradual process, prevents the sun's rays from reaching the easily damaged deeper layers. This process cannot be rushed, since your skin will thicken just so much and develop just so much melanin during the early exposure days in the sun.

Is it true that commonly used medications and topical substances can cause a skin reaction when sunbathing?

Certain substances can actually accelerate or worsen the sunburn reaction in some people, causing a photosensitivity reaction. These reactions suddenly appear as an exaggerated sunburn with an increase in redness, swelling, intense itching and weeping blisters, mostly affecting the exposed areas of the body. Below is a list of systemic and topical substances that may pose this health risk:

Oral medications: Thiazides (diuretic) Sulfonylureas (antidiabetic) Sulfonamides (antibiotic) Tetracyclines (antibiotic) Griseofulvin (antifungal) Phenothiazines (antinausea & vomiting)

Nalidixic acid (antibiotic) Birth control pills Common or Household Substances: Furocoumarin in parsley, celery, carrots, limes, oil of bergamot (in perfumes, aftershave lotions)

Plants, grasses Coal, wood tars Some PABA sunscreens Medicated soaps Optical brightners added to detergents

The best way to prevent a photosensitivity reaction is to avoid sun exposure altogether. However, if complete avoidance is not possible, you can decrease exposure time, wear protective clothing, and use a sunscreen offering the highest protection factor.

What can be done to reduce the risks associated with sun exposure and sun bathing?

Being aware of the health hazards associated with ultraviolet radiation and how your skin reacts is the first step toward prevention.

For people who engage in outdoor activities, protection is the key to avoiding the agony and skin damage of sunburn.

Here are several suggestions that can minimize tissue damage and skin thickening which occur with tanning.

Apply a sunscreen offering the maximum sun protection factor of 15 or more before every exposure to the sun. A sunscreen is especially important for ourdoor workers, fair-skinned individuals and people at high altitudes. The sun's rays are damaging even on overcast days, so a sunscreen is still needed. The sunscreen should always be reapplied after swimming or perspiring heavily.

Limit the length of exposure by avoiding the midday, and by starting with 15-30 minutes' exposure which is gradually increased on subsequent days.

Protect the body somewhat by wearing tightly-woven clothes. If you develop an allergic reaction to your sunscreen or other substances, avoid use of substances causing the reaction, try another sunscreen or avoid exposure altogether.

### A Question and Answer on Smoking



Submitted by the Smoking Commission

Q. My husband has been trying to stop smoking for three years now and just can't seem to make it. How can I help

A. The most important thing is for your husband really to want to stop smoking. You can point out to him that: (1) Even one cigarette speeds up the heartbeat, increases blood pressure, upsets the flow of blood to the lungs, causes a drop in skin temperature of the fingers and toes. (2) Nicotine cuts down on the flow of blood and oxygen through the body. (3) Tars damage lung tissues and leave chemicals in the lungs that may cause cancer. (4) Carbon monoxide robs the blood of oxygen and lingers in the bloodstream long after the person has stopped smoking. (5) Smoking destroys vitamin C in the body, inhibiting the proper function of the immune system.

You can get self-help manuals on how to stop smoking from the nearest lung association or from the American Cancer

# 31st Annual Service Recognition Banquet



45 Year Awardee Paul Jones being congratulated by President Rhodes, Provost Barker and Senior Vice President Herbster



40 Year Awardees: William Boyes, Luella Sullivan, Bernard Hankinson, Lester Conrad



35 Year Awardees: (Standing left to right) Everett Henecke, Jr., John Griffin, David Williams, Willis Besemer, Donald Bennett (seated) Howard Lyon, Jr., Bryce Carley, Ruth Teeter, Donald VanDermark, Robert Cook (not pictured) Clarence Hildreth, Eloise Hunter, Joseph Pettrone, Joyce Reyna, Richard Taylert



30 Year Awardees (Standing left to right) Franklin Henry, J. Robert MacCheyne, H. Daniel Schreher, Raymond Harris, Joseph Benedict, Jr. (seated) Darwin Dunham, Grace Parsons, Francis Consolie, Marie Powers, Mary Perea, Jeanne Butts (not pictured) Robert Carlisle, Steffie David, Keith Dickinson, Mary Lou Dumbleton, Gerald Gibbs, Marian Lovejoy, Donald Murray, Pearl Parlett Perry, David Pulleyn, Albert Reyna, W. Barlow Ware, Paul White



25 Year Awardees: (Standing left to right) Anthony Babbaro, David Chatterton, Horace Garland, Steven Jalso, Donald Scanlon, Daniel Winch, Donald Riley, Robert Sayles, GerhardSchmidt, Edward Broderick, James Nevill, RalphDickens, Ernest Terwilliger (middle row seated) Leon Hatch, Clarence Rose, Richard Krizek, John Petrillose, Thomas Grimm, George MacDonald, Robert Ennis, Jr., Raymond Ink (Front row seated) Marjorie VanNess, Laura Relyea, Martha Arnett, Esther Stark, Wilma Fisher,

Sharon Wellman, Elsie Cole, DeWayne Norsen, Joan Bowlsby (Not pictured) Horst Albrecht, Carrie Barnhart, Judith Bell, Eugene Caraccilo, Nancy Culligan, Bertha Francis, Roger Jackson, Douglas Johnson, Linda Lattin, Barbara Loman-Hildreth, Louis Macera, James Mason, Madelyn Newby, William Pakkala, Jr., Glenn Pierce, Janice Preston, George Schmeltz, Raymond Slate, Ethel Taylor, Judy Walden, Bettie Weaver

### A Special Evening for Awardees, Guests, and Employees The 31st annual service recognition banquet was held in Barton Hall on

Monday evening, June 9 with 485 in attendance. Those present included awardees, their guests, employees with over 25 years of service and members of the administration and Employee

There were 95 awardees honored this Year for exactly 25, 30, 35, 40, or 45 years of service to Cornell. That's a total of 2,735 years of combined service.

Geneva was well represented at this Year's banquet with twelve awardees and twenty between year special guests attending.

Altogether almost 355 employees were recognized this year as special guests with between 25 and 45 years of service. Thirteen employees attending have been at Cornell for 41 to 44 years.

Paul E. Jones, from Civil & Environmental Engineering, was honored for 45 years and Leo V. Rosica, from Buildings & Grounds Care was recognized for between 46 and 49 years

In addition to a prime rib dinner, the presentation of the awards, a welcome and message of congratulations from President Rhodes, those attending were treated to an evening of wonderful music by the Joe McConnell Band.



Geneva Awardees: (Standing left to right) James Nevill (25), Edward Broderick (25), George MacDonald (25), Robert Ennis, Jr. (25) (seated) Everett Henecke, Jr. (35), Darwin Dunham (30), Grace Parsons (30), Francis Consolie (30), DeWayne Norsen (25)

### Unclassifed Ads

Please submit all unclassified ads to
 Networking Unclassifieds, 130 Day Hall - no phone

2. For our information your name and campus phone number MUST be submitted with ads 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. Unclassified ads are for nonbusine purposes only.

5. The deadline for the July 24 issue is July 14. 6. If an error appears in your ad please resubmit ad to be published in next available Networking.

### For Sale

1976 Toyota Corolla, runs exc., high mileage, new muffler, \$490, neg. 257-1544 8am or after 5pm weekdays or weekends.

1979 Dodge Aspen, 4 door, slant 6, standard trans., exc. cond. Jane 5-6426 or 315-496-2117 after 5:30.

1980 Chevy Malibu, automatic, V-8, good cond., \$2200. 5-2744 or 533-7868.

1984 Chrysler Laser Turbo, automatic, air, AM-FM radio, digital dash, 15k miles, voice module, exc. cond. 315-497-0548 after 6pm or 5-6890 10-

1978 Ford Futura, 6 cylinder, standard, \$1400. 315-497-0548 after 6pm.

1982 Cavalier wagon, 4spd, 58k miles, cassette, bucket seats, original owner, exc. cond, \$3200. 5-8343 days, 387-5402 eves.

1975 Starfire, new timing chain, battery, water

pump, rebuilt carburetor, body good, best offer (willing to trade for beef cattle). 564-9375.

1976 Renault LeCar, exc. interior, strong 1979 motor, good tires, AM-FM, driven daily, \$275. Jim 277-4892 or 5-1997.

1976 Mustang, 4 cylinder, exc. cond., best reasonable offer. 564-9375.
1978 Ford Fairmont, station wagon, 65k miles,

little rust, \$1500. 277-4057. Fiat X1-9, 1974, 53k miles, targa roof, one owner, garage kept, \$1400 OBO. 273-5546 8-

1976 VW Dasher wagon, sunroof, AM-FM, extra mounted snow tires. 277-1568.

1978 Datsun 5spd, runs well but needs radiator repair. New muffler, extra tires, rust, interior clean, \$300. 273-6423.

1980 VW Rabbit, 4 speed, new paint, 99k miles, runs terrific, asking \$1450. 277-3694.
Honda 1982 CM-450-A, like new, only 2k miles,

well cared for, many extras, licensed now, \$1260 or swap for car, truck, tractor, etc. Mike 1-239-

1973 Honda 360 motorcycle, just passed inspection, runs great, \$350. Kathy 5-4998 or 589-

1975 Honda 750, must be seen, \$800 OBO. 277-1209.

2 Honda motorcycles, CB200T, CB750; '65 Olds F-85, 4dr automatic, restorable; '78 chevy Impala, passenger wagon, great family car or work horse; Ford 2-bottom plow; ARPS 3 pt hitch blade Mackinaw woodsplitter, like new. 898-5778 after 5:30.

1981 Honda 400 A, exc. cond., low mileage, \$750 neg. 273-1756. Puch Maxiluxe moped, exc. cond., low mileage, includes gas can, \$300. Carol 272-4930.

1961 International dump truck, 5 ton, 2spd rear axle, extra motor and body parts, exc. cond., \$3000 OBO. Bernie 5-6143 or 564-9375.

1972 Ford pick-up truck, good cond., \$800. 898-9540 after 6pm. Bolens 1000 tractor with cart, snowblower,

snow blade, 36" mower deck and extra set of blades, weight, \$1300. Also handmade trailer, stagecoach springs, extendable tongue, large carrying area, easy to move, \$75. Kathy 5-5439. Garden tractor, gravely-5 attachments, lawn

mower, sickle mower, snow plow, rotory plow, utility cart. Marge 5-4088 days or Jim 273-0078

Sailboat, Lightning, 20 ft, fiberglass, spinnaker, good cond. with trailer, \$3500 OBO. 535-9505 after 6pm.

Sailboat, 1979 Kalibri 11'10" sloop, seats 3-4 sailors, bright red, \$700. 257-2857 after 5pm. 3 pt. hitch buzz saw, \$150; Amerigo truckmount camper, sleeps 6, completely self-contained, \$2000 OBO. 564-9375.

Womens 3 speed bicycle with large carrier, \$40; Corby trouser press, as new, \$50. Nigel 5-6049 or 5-1880 eves.

6" telescope, Meade Newtonian reflector, 6600 professional series, equatorial mounting, tripod, setting circles, alt-azimuth controls, latitude scale, focusser, 6x30 finderscope, 9mm & 25mm eyepieces, dustcovers, superb optics; lifetime warranty, mint cond., original price over \$700; asking \$500. 257-7851.

Used radio equipment, stereo generator, dual channel compressor-expander, mono playback only cart machine, all in good working cond., \$450 takes all. 5-5584 days.

Computer terminal (NABU 4404), modem included, good for working with mainframe or minicomputer at home, exc. cond., \$375 neg. 272-

#### Networking Deadlines

1986 Deadlines

July 14 for July 24 August 11 for August 21 August 25 for September 4 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)

Expand your IBM PC-XT or compatible. Brand new Quadram Quadboard Multifunction card. 0-384k RAM expansion, Serial, Parallel, and Game ports, Clock calendar and software, \$180. Taxxan Amber Composite monitor, like new, hardly used, \$75. Dan Reynolds 5-4532 12-1 or leave message anytime at 594-2825.

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

Personal computer, Canon A-200 portable, (2) 360K floppy drives, 512K RAM, built-in modem, LED display, DOS-GWBASIC, user's guide, \$1607 neg. 5-1383.

Personal computer, ITT, (1) 360K floppy, (1)

20mg hard disc, color monitor, color graphics card, 256K, DOS 2.11, user's guide, \$2303 neg. 5-

Apple II compatible computer, 80k, 2 drives, monitor, CP-M card, 80-column card, joystick, stand, books and documentation, 175 disks of

software, \$1000 neg. 272-1187. Rollel 35 LED 35mm camera with flash and case, \$50 neg. 272-8841 eves.

2 modern, chrome and canvas chairs, \$45 pair.

Bean bag chair, \$10; twin bed (mattress & frame), exc. cond., \$25; double bed headboard, maple color with frame, \$35; brass decorative floor lamp, \$35. 5-4278 or 533-7725

3 pt hitch 7' case mower; McCormick deering baler; horse drawn mower, plow and small implements; dump rake. 273-2542 after 5pm.

Kitchen aid mixer, Model 3c with book, \$40; Mamiya c 33 professional camera, 2-4 by 2 1-4 twin lens reflex 1:35 lens, mint cond., \$200; hair dryer, \$5; 20 sets glass dessert plates and cups, \$1 per set; blender, \$10; high chair, antique cane, \$80; IBM Selectric typewriter, Model 711-10; Afgan, bedspread, feather pillows; more. 257-

15 units of Paclamar Astronaut (040H-0096), \$30 each. Jim 5-7950. 4 ft. sickle bar mower for IH cub cadet, used

wice. Jane 5-6426 or 315-496-2117 after 5:30.

Memberships in the Cornell Salling Club, open to community, dues \$100, open 6 days a week until 7pm. Lessons avail., social events, 10 boats docked at Myers Point. 5-6049; 5-1880 or 257-7521. Look around campus for flyers.

Set of three, 4-draw, all steel file cabinets, \$150 OBO; swivel business chair, exc. cond., \$50. 564-

Martin twelve string guitar like new, \$650; Sony reel-to-reel tape recorder, \$25; Sony 1—2'
B&W videotape recorder, \$75; JCPenny electric
typewriter, \$20; Macy's foot treadle sewing
machine in old cabinet, \$45; Murray girls' 24'
bicycle in great shape, \$35. 5-3421 days and leave
message or 272-9023 eves.
Piano, Spinet Bach, \$400. Marge 5-4088 days or
Jim 273-0078 eves

Jim 273-0078 eves.

Vermont Casting Vigilant woodstove, used 3 seasons; Modern Maid stainless steel all gas cooktop with grill, new, warranty; Stief upright piano, outstanding tonal qualities, reconditioned by Walkup and Frank; 1900's solid oak round pedestal table with 2 ext. leaves; twin formica trundle beds with matching desk. All in exc. cond.

3-shelf bookcase, sliding doors on bottom, heavy grade particleboard, approx. 27x65, new, \$35. Dot 5-3152 or 272-4271 after 5:30.

Kimball Swinger 500 organ-bench, The Entertainer; double keyboard, keys for several different kinds of accompaniment, works, but needs checkup because of being stored. Any offer over \$200 considered. Dot 5-3152 or 272-4271

1909 Fernwood upright piano, completely restored, beautiful cond., \$350; dark pine country bdrm suite, triple dresser with lg. hutch mirror, chest on chest, 2 end tables, queen headboard and footboard, \$350; Kenmore refrig, works great, \$10.844-9322.

Matching mahogany serving buffet with much storage and dining table with two leaves and ornate legs, \$160. 347-4792.

Small handmade insect specimen bottles and holders, 1933 soils map of NYS, brass door knobs, Egyptian leather bag, metal trash cans, industrial more, 34×59 dress metal office table with chair. mops, 34x59 green metal office table with chair, model RA Dilineascope, wooden stave barrels, men's 4-speed Schwinn bicycle and lock, Cape Cod weather glass, Polaroid Zip Land camera Make offer. Alex 5-3191.

Washer (avail. July 25), \$45; dryer, \$85 (\$125 pair); 10-speed bike, \$25; 2-13" Chevette wheels and radial tires with minimal tread, \$15; double bed, \$40; child's seat for bike, \$5. 257-2582.

Assorted kitchenware and toaster, iron, bedside lamp, bamboo window blind (small), Guatemalan rug, phone, hair dryer, all good cond. Men's ski pants (CB), X-country skiis and fittings (ladies 7-8). 272-8615. Ladies 3spd bicycle, old-fashioned Raleigh, \$50

OBO. 272-8615.

GE 4 burner electric range-oven, very good shape, \$50; Maytag washing machine, good shape, not used much, \$150; Maytag Nat. gas dryer, good shape, not used much, \$125. Kathy 5-

1973-74 Festival mobile home, 14x70 with 3 bdrms and 10x16 add-on plus bath and a half, air cond., shed, washer & dryer, all appliances, \$9500. Dave Armstrong 5-4289 days, 564-7908 eves. Set up on Newfield Park.

1972 3 bdrm mobile home, new pressure

treated deck with sliding glass door, woodstove, \$7500. Kathy 5-4998 or 589-4611.

2 bdrm cottage on Racquette River located near Potsdam, NY, boat dock and launch, 3-4 acres exc. cond., mid 30's. Carol 5-2080 or Sam 315-

Sat & Sun, 6/28-29, 9:30am-5pm. Sofabed. small appliances, desk, chairs, kitchen items, silverplated coffee set, dishes, pots & pans, glassware, craft items, woodstove, BW TV cardboard wardrobes, toaster-oven. Kathy 5-5439. Route 96B to S. Danby Rd, 6 mi. to Lang Rd, 2nd

Anglo-trakheners yearling filly and 2 weanlings (1 weanling avail. with its mother). 2 young Morgans bred for competitive trail or endurance (3 yr. gelding, 2 yr. filly). Becky 5-6396, 347-4308. Avail. for stud, purebred Siamese cat, proven

breeder, Sealpoint, for unregistered litters only. Becky 347-4308 after 9pm. Siamese kittens, \$40. 387-6805 eves, 5-3594

Pretty pinto pony mare, 44", with month-old filly at side, \$525 pair or sell separately; matched

pair yearling horse colts, chestnuts, training started, \$500 each or trade. 564-9375.

### Wanted

Used horsetrailer, prefer 2 horse, Thoroughbred size with ramp, will barter or buy outright. Becky 347-4308 after 9pm.

Used tripod for 35mm camera. Jane 5-6426 or 315-496-2117 after 5:30.

Good used riding lawn mower, used sheepskin clothing, used TI-99-4A computer equipment. 844-9222.

Crib, under \$75. Terry 257-7000 days. Used movies VHS or Beta tapes, reasonable, also used VCR machines. Jack 1-733-6122 eves. Double stroller. 277-2306 6-9pm.

### Free to Good Home

Cat, 3 years old, male, not neutered (I'm willing to get him neutered), cream-yellow colored, 7 toes on front paws, 6 on back. 533-4916 after 6pm.

For Kent

Room 1/2 mile from downtown T-burg, 75 ft. from Tomtran bus stop, spacious, sunny, canopy bed, bay window, private bath, full kitchen and living room privileges, prefer nonsmoking working woman, but will consider others, \$160 month, no lease. 387-6741.

House to share, downtown, quiet, clean, quaint old house with front porch and back yard, along Cascadilla Creek, \$130 a month plus. 20 minute walk to campus, avail. Aug. Greta 273-0135 eves

or 5-3608 10-4pm.
For rent or for sale, 4 bdrm, Russian fireplace, unique home, owner financing avail., immediate occupancy. Jim 273-0078 eves or 273-3047 days (or Marge 5-4088).

House in T-burg village, 3 bdrms, garage, sunporch, garden, low utilities, washer & dryer hookups, quiet dead-end street near shopping and Tomtran bus stop. Pat 5-4041 days, 387-5230

One bdrm basement apt in private northeast home, separate entrance, parking, bus line, no pets, \$350 includes heat, hot water, AC. Grad student or faculty preferred. Avail. Aug. 15th. 257-5677 or 5-5888.

1 bdrm apt., Dryden, \$250, 2 bdrm duplex, Freeville, large yard, \$350. Both avail. now, 15 min. to Cornell. 844-9132 days, 844-9745 eves.

### Carpool

Ride wanted for 6th grader back and forth from Hasbrouck Apt. to Dewitt Middle School in the fall. Willing to pay. 257-1544.

#### Exercise

Aerobics class, Monday, Wednesday and Friday, June 23 to August 29, 1986, 12:10-12:50, Helen Newman Gymnasium, \$1 per class, Instructor: Amy Brill. For more info or to sign up call Debbie Gatch, 5-5133.

### Instructors Needed

For Fall '86 Experimental College, teach your favorite hobby, skill or past time. Anything from fly trying to herbology to tap dancing, positions open to faculty, staff, students and entire Ithaca community. Share your talents with others. Pick up an application in room 538, Willard Straight Hall or call for more info, 5-7131.

### For Hire

Can't do it yourself? Painting, moving, lawn and garden care, odd jobs my speciality. 257-0876

Small engine repair, lawn mower, chain saw, snow blower, others. Reasonable rates, quality work. 272-6891.

# Employee Calendar

**Events of Particular Interest** to Cornell Employees

Thursday, July 10. CRC annual meeting and open forum on the CRC park. 12 noon, location

Friday, July 11. Employee Education committee, B-8 Roberts, 12 noon.

Wednesday, July 16. Employee Assembly meet-

ing, B-8 Roberts, 12:15pm.
Saturday, July 19. CRC Yankee baseball trip.
Monday, July 21. Employee Day committee,
Hall of Fame room, Schoellkopf, 12 noon.
August 14-17. CRC trip to Toronto.

Monday, August 18. Employee Education committee, B-8 Roberts, 12 noon.

Wednesday, August 20. Employee Assembly meeting, B-8 Roberts, 12:15pm.
Saturday, August 23. CRC trip to Giants foot-

ball preseason game. Saturday, September 6. CRC annual golf tournament.

Editorial Board

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

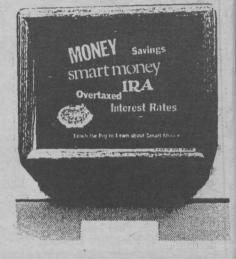
**Ernie Thurston** 

UNIVERSITY PERSONNEL LIAISON Laurie Roberts

**PRODUCTION** Cheryl Seland

# Your Employed Benefits





What is a tax deferred annuity (TDA) How can a TDA benefit me? How does this compare to an IRA?

Answers to these questions and more can be right at your fingertips with Touc & Plan, an interactive touch-activated

As part of a pilot program, Touch & Plan will be available for your use from 8am to 5pm in University Personnel Services, 130 Day Hall.

Similar to the touch screen directories found in some supermarkets, hotels and airports, the system was designed by Unionmutual to assist university employees learn how tax deferred savings can help them successfully mee their future retirement needs.

### Employees can save for retirement by making contributions on a pretax basis to a variety of investment options.

It is simple to use, yet contains a substantial amount of information and even allows you to input data for calculating tax savings and projecting accumulations.

According to a Unionmutual representative, the advantages of using Touch & Plan are many: the information is accurate, easily understood, and responses can be tailored to your individual needs just by touching the appropriate question on the screen.

You review the information as quickly or slowly as you like and you can take notes as you go. Using the Touch & Plan system allows your personal finances to remain private.

Unionmutual, along with TIAA/CREF. Equitable, Fidelity and Dreyfus, provides investment opportunities through the Cornell University Tax Deferred Plan. Employees can save for retirement by making contributions on a pretax basis to a variety of investment options.

