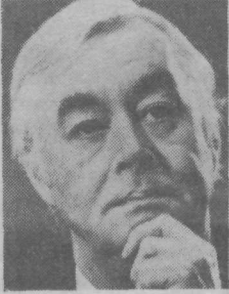


Cornell Chronicle

Volume 17, Number 24

Thursday, May 22, 1986

4,300 Will Graduate; Moynihan Is Convocation Speaker



MOYNIHAN

About 4,300 Cornell students will receive their degrees Sunday, June 1, during the university's 118th commencement.

Formal events will begin Saturday, May 31, when Sen. Daniel Patrick Moynihan (D-NY) addresses the graduates and their guests during the 1986 Convocation, beginning at 1 p.m. in Bailey Hall.

Convocation also will include a slide show set to music, student speakers, including Charles Lyons, senior class president, and presentation of the class gift to the university. A reception will be held in the Statler Ballroom after convocation.

The Cornell Wind Ensemble will give a concert at 4 p.m. Saturday outside the Johnson Museum of Art. In case of rain, the concert will be in Bailey Hall.

Prior to commencement weekend, members of the Class of 1986 will take winery tours, go horseback riding, attend a dinner cruise, and hold a senior olympics as part of Senior Week May 24 through 30.

In addition to receiving their degrees June 1, 82 students will receive ROTC commissions. They include 22 Army cadets, 30 Navy ensigns, five Marines, and 30 Air Force cadets. The commissions will be awarded at 8 a.m. Sunday in Alice Statler Auditorium. Lt. Gen. Robert D. Springer, inspector general of the United States Air Force, will be the speaker.

A baccalaureate service sponsored by Cornell United Religious Work will be held Sunday at 9:30 a.m. in Bailey Hall, with the Rev. Peter J. Gomes, minister at Memorial Church, Harvard University, preaching. Music will be provided by the Cornell University Glee Club, Chorus, and Wind Ensemble.

A reminder to all commencement ushers ...

Rehearsal will be held on Schoellkopf Field Wednesday, May 28, at 3 p.m. Rain date is Thursday, May 29, at 3 p.m.

The commencement ceremony will begin at noon Sunday on Schoellkopf Field. In keeping with Cornell tradition, President Frank Rhodes will deliver the commencement address after reviewing the academic procession from a stand at the north end of the field.

Music will be provided by Cornell's Chimemasters, Wind Ensemble, Glee Club, and Chorus.

Guests may enter Schoellkopf beginning at 10 a.m. and should be in their seats by 11 a.m. All degree candidates should be in place on the Arts Quadrangle by 10:30 a.m. to form the academic procession, which will start at 10:55 a.m. under the direction of J. Robert Cooke, the university marshal.

In case of inclement weather, two graduation programs will be held in Barton Hall. The ceremony for graduates of the architecture, art, and planning; engineering; hotel; human ecology; industrial and labor relations; and veterinary medicine schools and

colleges, and the Graduate School and the Johnson Graduate School of Management, will begin at noon.

The ceremony for graduates of the agriculture and life sciences and the arts and sciences colleges will begin at 2 p.m.

Admission to the indoor ceremonies will be by ticket only. In the event of severe weather, announcement of the indoor ceremonies will be made on local radio stations beginning at 8 a.m.

Cornell's schools and colleges will be hosting receptions after commencement.

The Law School's convocation will be held at 2 p.m. Sunday, May 25, in Bailey Hall with law professor Russell Osgood speaking.

The Johnson Graduate School of Management will hold a ceremony at 2 p.m. Sunday, June 1, in Bailey Hall with Cornell Trustee Robert Cowie speaking.

There will be 192 law degrees (180 JD candidates and 12 LLM candidates) and 213 MBAs awarded this year.

The College of Veterinary Medicine will

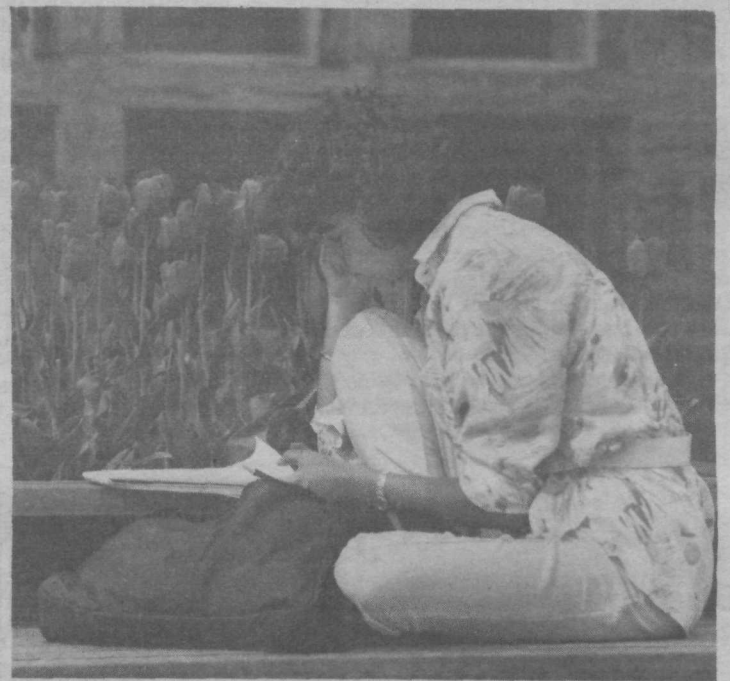
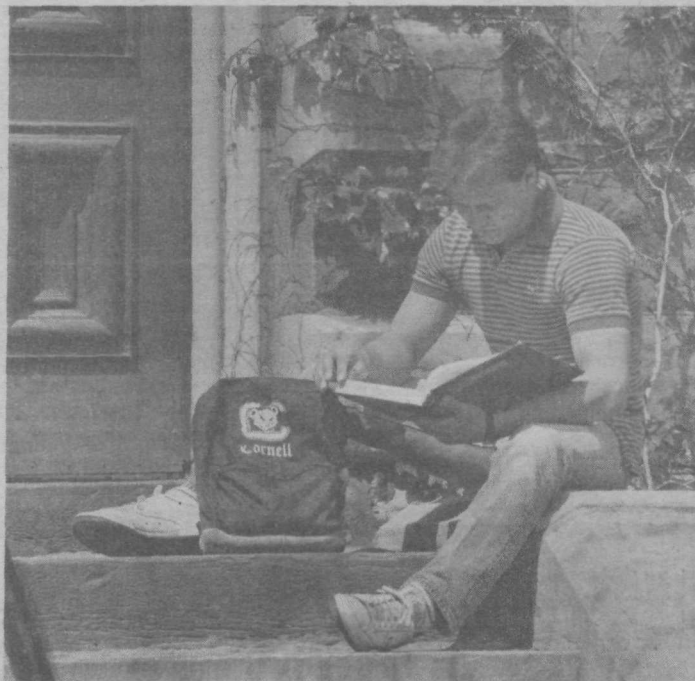
hold a hooding ceremony at 7 p.m. Saturday, May 31, in Alice Statler Auditorium; 83 students will receive veterinary medicine degrees at Cornell's commencement June 1.

The Cornell University Medical College in New York City will award medical degrees to 102 students during its commencement Wednesday, May 28. The speaker will be Dr. Willard Gaylin, president of the Hastings Center.

Special provisions can be made in advance for guests with mobility impairment who will be attending the June 1 ceremonies at Schoellkopf. For more information call the commencement office at 255-9541.

For the first time at Cornell, a commercial firm has been selected to produce a one-hour video record of commencement. The video tapes, being offered for sale at \$29.95 each, will include convocation, baccalaureate service, the commencement procession, interviews with students and faculty, and other scenes.

The Finals Stretch



Range of Cornell Research to Be Presented at AAAS

Findings on everything from condensed matter physics to psychotherapy, technological hazards to African famine, and international economy to supercomputers will be presented by Cornell researchers at the annual meeting of the American Association for the Advancement of Science (AAAS) May 25-30 in Philadelphia.

More than 20 Cornell faculty members and students are among the organizers and invited speakers for the 150 symposia scheduled at the meeting.

Rada Dyson-Hudson, associate professor of anthropology, will speak on ecological in East Africa in a May 26 roundtable discussion of human adaptations.

"Sharing Research Data: Costs and Benefits" will be the topic for six speakers, including Dorothy Nelkin, professor of sociology and a member of the Program on Science, Technology, and Society, in a symposium May 26.

Speaking at a May 26 symposium on "New Frontiers in Agricultural Research,"

Roger M. Spanswick, professor of plant physiology, will discuss the uptake of ions by plant roots.

Frederick H. Buttel, associate professor of rural sociology, is one of two organizers of a May 27 symposium on "The Farm Crisis and the Future of American Agriculture."

Among the participants in a May 27 symposium on "Ethics, Evidence, and the Management of Technological Hazards" will be June Fessenden-Raden, a member of the Program on Science, Technology, and Society and associate professor of biochemistry, molecular and cell biology, and Valerie Mike, adjunct professor of biostatistics at the Cornell University Medical College.

Lessons Ethiopia can learn from Kenya's response to drought will be the topic for David Lewis, associate professor of city and regional planning, in a May 27 symposium on "Issues and Strategies in Drought, Hunger, and Famine."

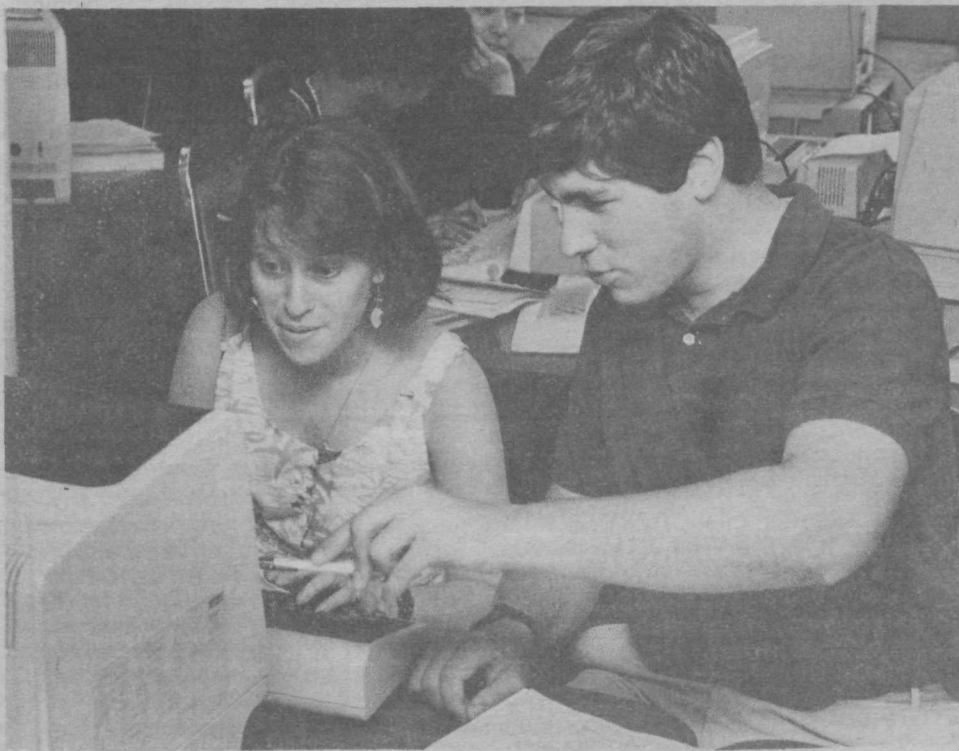
Robert Michels, professor of psychiatry at Cornell University Medical College and psychiatrist-in-chief at New York Hospital, will speak May 27 in a symposium on "The Science of Psychotherapy."

Porus Olpadwala, associate professor of city and regional planning and director of the International Studies in Planning program, and Shoko Tanaka, graduate student in government, will speak at a May 27 symposium on "New Technologies, Trade, and the Reorganization of the International Economy."

David Pimentel, professor of entomology, will speak on technology related to soil and water resources in a May 27 symposium on "Shifts in Thinking About Population-Resources-Environmental Relationships."

Four Cornell physicists will participate in a two-session symposium May 28 on "Physics of Condensed Matter." They are Neil W. Ashcroft and Mitchell J. Feigenbaum, professors of atomic and solid state physics; Michael E. Fisher, the Horace White Professor of Chemistry, Physics, and

Supercomputer Symposium Organized by Junior



YOU CAN GET THERE FROM HERE. Gilgor Tashkovich, a junior majoring in government at Cornell University, instructs Cornell sophomore Shari Michels in communication by computer networks at one of the public terminals on the campus. An expert in "inter-networking," or communication between the world's various computer networks, Tashkovich is the organizer of a May 29 symposium on supercomputers at the annual meeting of the American Association for the Advancement of Science in Philadelphia.

When the brains behind this nation's \$136 million supercomputer initiative discuss the future of advanced scientific computing May 29 at the AAAS annual meeting in Philadelphia, the person presiding won't have a "Ph.D." after his name — just an "'87."

Gligor A. Tashkovich, one of two organizers of the session on "The Status of the NSF Supercomputer Initiative," is a junior at Cornell University. The 8:30 a.m. session in the Ormandy East room of the Hershey Philadelphia Hotel won't be the first time the 20-year-old government major has been mistaken for "Dr. Tashkovich."

The session is one of 150 symposia scheduled May 25-30 at the 152nd annual meeting of the American Association for the Advancement of Science.

Speaking at the supercomputer symposium will be key figures in the National Science Foundation program that established five supercomputer centers in 1985. They are: Nobel laureate Kenneth G. Wilson, director of Cornell's national supercomputer center (the Center for Theory and Simulation in Science and Engineering); Lawrence A. Lee, NSF program director for supercomputer centers; Dennis M. Jennings, president of the John von Neumann Consortium, operator of the Princeton, NJ, supercomputer center; Albert B. Harvey, program director for new technologies at NSF; Kenneth M. King, vice provost for computing at Cornell University; Richard Hilderbrandt, senior staff scientist, GA Technologies, Inc., oper-

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Biotechnology 'Powerful Tool' For Small Farmers: Schumacher

Biotechnology and integrated pest management are powerful tools for small farmers who are trying to meet new consumer demands for fewer pesticides in their food, the top agricultural official in Massachusetts says.

August Schumacher Jr., Massachusetts commissioner of food and agriculture, told a Cornell audience that integrated pest management techniques and biotechnology will become more important to farmers as they accommodate the changing demands of the American consumer.

In a talk sponsored by the College of Agriculture and Life Sciences, Schumacher said: "People want fresh vegetables and low residual pesticides and they're willing to pay for them."

Farmers are working to satisfy those demands in Massachusetts, he said. Apple growers, for example, are reducing their use of chemicals by 50 percent and cranberry farmers plan to reduce their use of chemicals by 75 percent over a six-year period.

Much of this pesticide reduction is accomplished using integrated pest management, or IPM, in which farmers utilize a wide range of techniques to combat agricultural pests instead of using only chemicals.

Biotechnology is also becoming increasingly important for farmers who are trying to grow new products for new markets, he said. For example, two Massachusetts farmers are raising strawberry and asparagus plantlets grown through tissue culture. Those farmers are each grossing \$1 million in sales annually, and much of that revenue comes from export to Europe.

Tissue culture is especially important for the export market because plants raised in that manner do not contain viruses that could be transported from continent to continent with the plants.

Private investors are becoming aware of the importance of tissue culture and, in one instance, a Massachusetts farmer received \$150,000 from an investor to continue his work on virus-free asparagus plants designed for export to Europe.

Biotechnology is not without its conflicts with the American consumer. Schumacher

said that the bovine growth hormone technology — developed at Cornell — will meet with stiff resistance from many consumers who see this as just another chemical in their food.

The hormone, which is injected into cows, will dramatically increase the cow's milk output. Schumacher predicted that many mothers will refuse to feed their children milk from cows treated with the hormone, even though it has been proven safe.

Cornell scientists involved in research on the use of the growth hormone said that milk produced by hormone-treated cows will not have any hormone in it. Even if the substance is orally consumed by humans, it is broken down in the digestive tract like any other dietary protein because the bovine growth hormone is a protein. They added that even if the hormone was injected into the blood stream, it would not have any biological effect because bovine growth hormone is structurally different from human growth hormone.

Even the chemical companies that produce pesticides are looking at alternatives to chemicals.

"They are spending millions of dollars in research to develop integrated pest management techniques and biotechnology products," Schumacher said.

In his closing remarks, Schumacher predicted that consumer interest in pesticide-free foods, organic foods, biotechnology, and integrated pest management has created a demand for standardized labeling that can be used to identify a product grown using those techniques.

"There isn't any legal definition of what integrated pest management is, what low pesticide means, or what constitutes organic farming. The question is, how is food going to be labeled?"

Schumacher suggested that a major study designed to produce legal definitions of terms such as integrated pest management, low pesticide, and others would be an important research project. The College of Agriculture and Life Sciences at Cornell, with its "enormous" resources, is an excellent candidate for such a project, he noted.

Brief Reports

Directory Lists University Social Scientists, Economists

The Cornell Institute for Social and Economic Research has issued the 1986 edition of the "CISER Directory of Cornell Social Scientists and Economists." To obtain a copy, call the CISER office, 255-4801, or write CISER, 323 Uris Hall. Copies are free.

The directory describes the current research interests of Cornell's social science faculty. Four hundred and nine social scientists from 28 departments in 10 Cornell colleges and divisions are represented. Research interests are indexed to enable faculty to identify those working in areas similar to their own.

CISER is a cross-disciplinary organization of more than 200 Cornell social science faculty who seek to enhance the environment for social science research at Cornell.

Annual Steam Shutdown Scheduled June 3 to 5

The annual campus-wide steam shutdown is scheduled this year from 5 a.m. Tuesday, June 3 to 5 p.m. Thursday, June 5.

The shutdown is necessary for essential maintenance work on the steam distribution system and repairs at the Central Heating Plant.

Anyone anticipating problems should call the Customer Service Center at 255-5322.

Safety Shoes Available At Mobile Store May 29

Employees will have an opportunity to buy special safety shoes that will be sold from a mobile store Thursday, May 29.

The store will be parked at Stocking Hall on Tower Road from 9:30 a.m. to 12:30 p.m. and between Statler Hall and Barton Hall from 1:30 to 3:30 p.m.

Additional details are available from Alex McCord at the Department of Life Safety, telephone 255-3744.

Young Israel House Gets Gift for Kosher Kitchen

Young Israel House at 106 West Avenue has received a gift from the Morris Sole Memorial Fund which will provide for renova-

tions to develop a kosher kitchen at the house.

Sole was an active member of National Young Israel, which sponsored the house at Cornell in the mid-1950s as the first one sponsored by the national organization.

During ceremonies marking the gift on Sunday, May 11, a busload of 60 of Sole's friends and family came from New York City. William J. Kaminski, manager of small residences for the Department of Residence Life, participated in the event.

Librarian Candidate Will Speak May 28

David F. Bishop, director of libraries at the University of Georgia and one of several candidates under consideration for the position of university librarian at Cornell, will address the Academic Assembly of the Cornell University Libraries at 4:30 p.m. next Wednesday, May 28, in the Hollis E. Cornell Auditorium of Goldwin Smith Hall.

Members of the faculty are invited to attend Bishop's presentation and express their views of his candidacy to Vice Provost Barry Adams, co-chair of the search committee. Copies of Bishop's *curriculum vitae* are available in the reference areas of all campus libraries.

TV Station Picks Gilliland As Poet in Residence

Mary Gilliland, author of "Gathering Fire," and lecturer in the Freshman Seminar Program at Cornell, has been selected by WSKG-TV this spring as poet in residence on ArtScene. Produced and hosted by WSKG's Julie Kramer, the show will feature Gilliland reading selections from her poetry through June 19.

Concerned with such topics as seasonal cycles, gardening, the environment, militarism, childhood, growth and death, Gilliland's most recent magazine publications include poetry in *Stone Country* and the Special Peace Issue of *Helicon Nine: The Journal of Women's Arts and Letters*.

The TV show airs weekly Thursdays at 8:30 p.m. and is rebroadcast Saturdays at 1 p.m.



Close scrutiny is focused on a flower by botanist Faith Roelofs and students Irene (left) and William Kuipers Jr., students at Cornell's Adult University last summer.

Cornell's Adult University Has 24 Seminars, Courses This Year

Cornell's Adult University will offer 24 seminars, field-study courses, and hands-on workshops on campus beginning June 29. The noncredit, weeklong courses taught by Cornell faculty are open to alumni, faculty, staff, and friends.

The course roster includes:

June 29-July 5

South Africa: Crisis and Challenge, Locksley Edmondson, Milton J. Esman; Who's on First? Baseball and American Culture, Glenn Altschuler, W. Lamar Herrin; A Visitor's Guide to the Universe, Yervant Terzian; Gorgeous Gorges of the Finger Lakes, Verne N. Rockcastle; Drawing: From the Observation to the Imagination, Zevi Blum; and Perfect Endings: Desserts, Marcia Ervay.

June 6-12

The Reagan Era after Reagan, Benjamin Ginsberg, Martin Shefter; New York, New York: A Wonderful Town? Nicholas A. Salvatore, Joel H. Silbey; Cayuga Lake Ecology and Archaeology, John Chiment; The Road to Clarity: Writing and Revising, Katherine Gottschalk; Origins of Personality: Childhood and Adulthood, Kristi Lockhart-Keil,

Ronald D. Mack; and Vine, Wine, and Table, Craig Goldwvn.

July 13-19

Faces of Change: Contemporary Black America, Robert L. Harris, Jr., Robin M. Williams, Jr.; The Russian Temper, Patricia J. Carden; Natural Life in the Finger Lakes, Richard B. Fischer; The Art and Craft of Better Speaking: A Workshop, Charlotte Rosen; A Culinary Sampler, Charlotte Bruce; and Stocks, Bonds, Options, and Futures, George S. Oldfield.

July 20-26

Espionage and Intelligence, R. Ned Lebow; Music in the Age of Romanticism, Arthur Groos, Roger L. Parker; Introduction to Garden Design, Marvin I. Adleman; Getting the Job Done (without Alienating Everyone around you): A Workshop, Marvin D. Clock; It's All Alimentary: A Guide to Healthy Eating, David A. Levitsky, Bob Norman; and A Layman's Guide to the Law, Carol Bohmer.

For course tuition and more information contact Cornell's Adult University, 626 Thurston Ave., Ithaca, N Y 14850; telephone (607) 255-6260.



A class at a previous Adult University learns about the flora of an area gorge during a field trip.

Cornell Chronicle

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

Ion Effect Proved by Space Cloud Experiment, Cornell Scientist Says

Glowing clouds of chemicals, blasted from rockets into the pre-dawn darkness above the Virginia coast Tuesday, May 13, apparently demonstrated the Critical Velocity Effect Theory of particles in space.

"The strontium release was spectacular. A beautiful beam came out (of the cloud) in the direction it was supposed to," reported Michael C. Kelley, professor of electrical engineering at Cornell and one of the leaders in the international rocket experiment.

After six days of weather-related delays, two NASA rockets were launched from the Goddard Space Flight Center on Wallops Island, beginning at 3:40 a.m. The rockets carried instrument packages and canisters of the chemicals barium and strontium more than 250 miles into a hot region of near-space called the thermosphere.

Space scientists from the United States, Sweden, and Germany were hoping to see beams of electrically charged barium and strontium emerge from the tops of the glowing, spherical clouds at 8,000 miles per hour. Early morning viewers along the East Coast were hoping for a celestial light show. Neither group was disappointed.

The experiment was designed to test a 30-year-old theory of Hannes Alfvén, the Swedish scientist who received the 1970 Nobel Prize in physics for his studies of space plasma. Alfvén hypothesized that neutral (or uncharged) particles become ionized (electrically charged) when accelerated across a magnetic field at a particular velocity.

Trapped in Earth's magnetic field, the ions were expected to escape in the only possible direction — up the lines of the magnetic field in the form of a beam that would be illuminated by the rising sun. And so they did.

Although previously shown in the laboratory, the Alfvén effect never had been intentionally demonstrated in space. A similar experiment over Peru in 1983 almost showed ionization, Kelley noted. But, like the start-up flickering of a fluorescent lamp (which also uses charged particles in a plasma), the Peru experiment failed to "light."

This time, NASA and the space scientists

from several universities and institutes planned the rocket shot from Virginia, where the chemicals could cross the magnetic field at a 45-degree angle.

Observers at Wallops Island said the bright blue strontium release was more spectacular, exploding like a streak across the night sky. Because observers there were almost directly under the clouds, the ionized beams could not be seen. However, instruments and observers in New Jersey and in North Carolina confirmed that the beam effect occurred.

NASA received reports of the clouds from viewers as far north as Lake Ontario (Pulaski, NY), but few from south of Virginia, apparently because of cloudy skies.

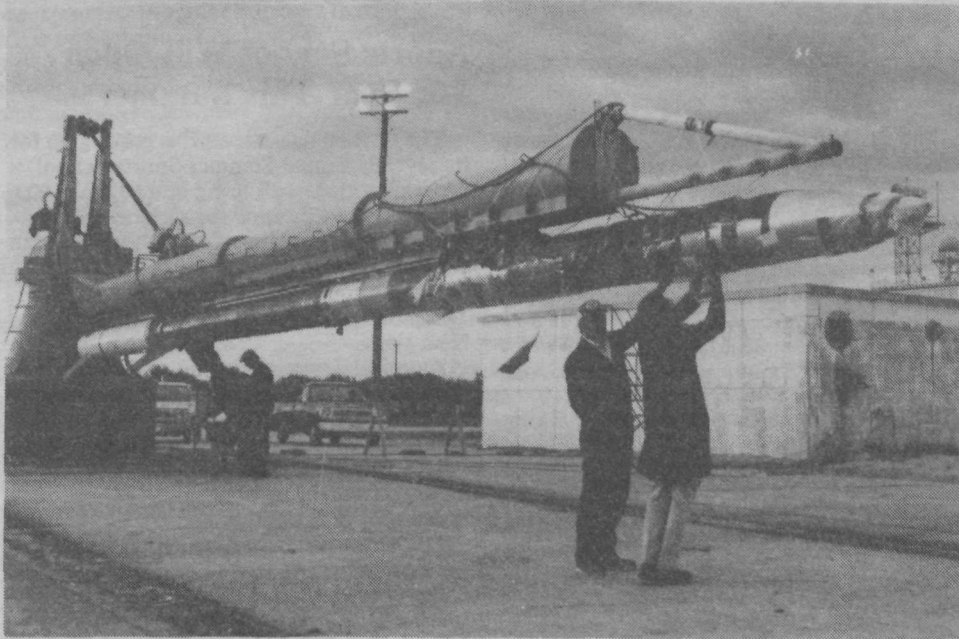
Among those photographing the experiment was Thomas Herbst, a Cornell graduate student in astronomy. Herbst said that

in Ithaca the artificial clouds appeared in the area of the sky where one finds the Milky Way.

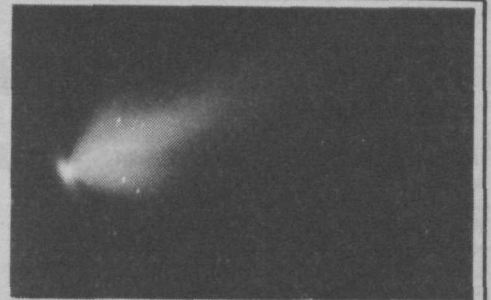
The critical velocity experiment was the first successful demonstration of a new sounding rocket technique, Kelley said. On-board computers in a spacecraft were used to monitor conditions in the thermosphere and to control the start of the experiment.

Instruments in the rockets' payloads, including those designed and built at Cornell, were recovered from the Atlantic May 14 by the U.S. Coast Guard.

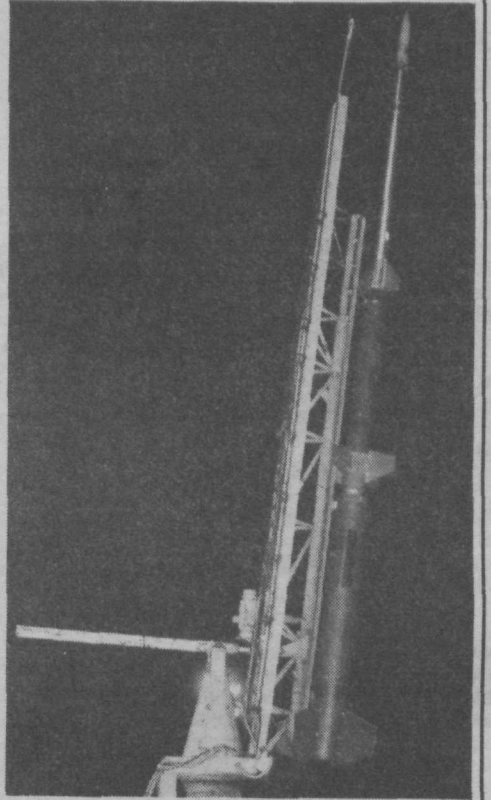
Analysis of data from the experiment will take months, Kelley said, noting that the preliminary consensus is that the Alfvén effect does, in fact, occur in space. "We're already planning another chemical release," he said, "probably in a couple years."



Instruments designed and built at Cornell were part of the payload of this Black Brant X rocket that carried the chemical barium into space last week, after six days of weather-related delays.



This cloud, which was blue, was the result of the strontium release. As viewed from Virginia, the cloud obscured the ionized particle beam that is said to confirm the critical velocity theory. (Photographs courtesy of NASA)



The three-state Taurus-Nike-Tomahawk rocket, also launched from NASA's Wallops Island center, carried the chemical strontium in a test of the Critical Velocity Effect Theory.

Cornell Administers Grant to Establish Nutrition Centers of Excellence

Cornell's Division of Nutritional Sciences will administer a new program to establish "centers of excellence" in nutrition at selected universities and medical colleges across the nation.

Supported by the Pew Charitable Trusts of Philadelphia, the \$5.9 million program will provide five-year grants of up to \$1 million to a minimum of five centers. A national advisory committee of leaders in the field of nutrition will oversee the program administered by Cornell.

"The field of nutrition is in the process of change, and many institutions have not yet developed a clear sense of direction for the future, thus these centers of excellence are needed," according to Malden C. Nesheim, director of Cornell's Division of Nutritional Sciences.

Nesheim will serve as director of the Pew grant program; Michael N. Kazarinoff, associate professor of nutritional biochemistry at

Cornell, will be associate director of the program. Cornell's Division of Nutritional Sciences, the largest academic department in the United States devoted to the study of human nutrition, is a joint unit of the New York State College of Agriculture and Life Sciences and the New York State College of Human Ecology.

Nesheim says that nutrition, by its very nature, is a "broad and diverse field of study requiring expertise ranging from the social sciences to molecular biology." He adds that it is not surprising that "nutrition interests within many academic institutions have become diffuse and are losing focus as scientists from many areas begin to investigate the relationship of diet to health and disease."

There are more than 100 accredited schools or programs in nutrition in the United States.

Nesheim says that the field of nutrition is

no longer focused primarily on discovering essential nutrients and understanding their metabolism, which presents another problem.

"Today's concern with potential relationships between dietary patterns and the risk of heart disease, cancer, diabetes, obesity, hypertension, and osteoporosis often requires a somewhat different approach and expertise," he says.

By establishing several model nutrition centers, the Pew Trust aims to provide an incentive to universities, medical schools, and schools of public health to develop or sustain teaching and research in nutrition.

"It is quite possible that future nutrition programs will no longer reside in the traditional department structure, but will be the subject of centers that cut across traditional university organizational lines," he explains. "It is even conceivable that institutions with-

in a geographical area could develop a collaborative center using the resources of the Pew program."

In addition to sponsoring research and training, the centers will conduct annual meetings to discuss their programs and problems, share research results, and consider current issues in nutrition.

Another aspect of the Pew program will be the funding of up to ten visiting fellowships for young or established investigators to work at the centers. The visiting fellows will benefit from the opportunity to conduct research at the host center and will provide leadership for developing nutrition programs when they return to their home institutions.

The Pew Charitable Trusts were established by the Pew family of Philadelphia to support work in education, health care, culture, human services, public policy, religion, and conservation.

Americans Have Different Attitudes About TV Fare for Adults, Kids

By SUSAN S. LANG

What kinds of television programming are appropriate for young children and adults?

Most grown-ups in a Cornell University study say sports and cartoons are all right for both groups. However, that same study points to sports and cartoons as being the most violent and sex-typed programs on the air today.

"Oddly, the programs that received the highest approval by adults for youngsters — sports and cartoons — are among the most violent and sex-typed, even though we don't necessarily perceive these programs that way," said Daniel McDonald, assistant professor of communication arts at Cornell.

Discussing the study Wednesday at the annual meeting of the International Communication Association, McDonald said that both types of programs show characters fighting each other and depict males and females in stereotyped roles.

"The fact that adults approve of sports and cartoons so highly says something about our society's opinions on violence and sex-role stereotyping," he said. "It also may be one reason why it takes so long for society to change its values."

"If children are encouraged to watch programs that perpetuate these values, youngsters will continue to hold those values regardless of what they may be taught otherwise," McDonald stressed.

McDonald and co-researcher Carroll Glynn, also an assistant professor of communication arts in the College of Agriculture and Life Sciences, surveyed 285 adults on their attitudes toward middle-aged adults and preschool children watching five kinds of programs — news, sports, cartoons, crime/adventure, and adult movies. McDonald and Glynn were trying to determine social norms concerning TV viewing.

The Cornell researchers found that the norms for adults were very different from those ascribed to children. The approval for sports for both groups, however, reflects America's positive views on competition.

"A common theme in sports programming is competition," Glynn explained. "The fact that adults strongly approve of sports across both age groups reflects our culture's tendency to cultivate that value and encourage it in our children."

Previous research has shown that the values portrayed on TV can influence many of the values held in American society. And it's no wonder, considering the amount of "boob tube" the average American watches. In 1984, the television was on for an average of seven hours a day per household. Preschoolers watched a little more than four hours a day, while the average middle-aged adult watched four hours and 18 minutes.

Although the Cornell communications researchers found that adults had different

ideas about what children and adults should watch, their attitudes about what children should watch were much stronger.

"No particular type of program was actually disapproved of for adults, including cartoons," McDonald said. "Yet, there was a fairly strong consensus among those surveyed that crime and adult movies were not appropriate for children."

McDonald and Glynn also found that the more the respondents watched crime/adventure, sports, and news programs, the more likely they were to approve of these shows for other adults. The more hours that an adult watched TV, the more he or she was likely to approve of sports and cartoon viewing for other adults.

Other significant findings in the Cornell study are:

- the older the respondent, the less likely the adult was to approve of other adults watching news and sports programs
- the more children, the stronger the adult disapproval of children watching all kinds of shows, particularly crime/adventure programs
- the more adults in the household, the greater the approval for children to watch sports
- although watching news ranked the highest approval for viewing by adults, it was not as strongly favored for children. In fact, some adults strongly disapproved of children

watching news, and

• cartoon viewing by adults was more strongly approved of than crime/adventure programs and adult movies.

Trustees Meet Here May 31

Cornell's Board of Trustees and its Executive Committee will meet in open sessions on campus May 31.

The full board will meet Saturday afternoon in the Trustee Meeting Room on the sixth floor of the Herbert F. Johnson Museum of Art. Among items to be discussed are the current situation on the federal level regarding student financial aid; a report on the status of women and minorities at Cornell; and reports from various committees of the board. Dean of Faculty Joseph Bugliari will report to the board during its open session, and a policy on conflicts of interest will be considered.

During the closed and executive sessions, the board will hear reports on and consider several financial, facilities, and personnel matters. Trustees-at-large will be elected and assignments to committees will be decided.

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 Appgar, Central Reservations, 531 Willard Straight Hall, who prepares the Calendar notices for these listings. She must receive the notices at least 10 days prior to publication. Items should include the name and telephone number of a person who can be called if there are questions, and also the subheading of the calendar in which it should appear (lectures, dance, music, etc.).

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

All deadlines will be strictly enforced.

*Admission charged.

Announcements

E.A.R.S.

Empathy, Assistance and Referral Service (EARS) has expanded its hours. Friday hours have been extended from 7-11 p.m. to 5-11 p.m. Regular hours Sunday through Thursday, 3-11 p.m. and Saturday, 7-11 p.m. continue unchanged. E.A.R.S. provides short-term peer counseling on a walk-in as well as telephone basis. EARS is located in 211 Willard Straight Hall, and the phone number is 255-EARS. All services are free and completely confidential.

Writing Workshop

Writing Workshop Walk-in Service. Free tutorial instruction in writing. Mon.-Thurs., 3:30-6 p.m. & 7:30-10 p.m.; Sun. 3-8 p.m., 174 Rockefeller Hall and Sun.-Thurs. 10 p.m.-midnight in 340 Goldwin Smith Hall.

Alcoholics Anonymous

Faced with a drinking problem? Perhaps Alcoholics Anonymous can help. Open AA meeting every Monday, Tuesday, and Thursday at 12 noon in the Anabel Taylor Hall Forum and every Wednesday at 12 noon in 314 Anabel Taylor Hall.

Exit Interviews for May Graduates

Students who expect to graduate in May and who have received student loans from Cornell University must attend an exit interview meeting. Meetings will be held throughout the month of May. Appointments must be made by calling 255-7234. Students will not receive either a diploma or a transcript if they fail to attend.

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 from May 25th to September 28th. Please call Nigel Quinn, 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 throughout May. Instruction from 7:30 to 8:30 followed by request dancing until 10:30 p.m. Free. Beginners welcome. No partners needed. For more information call 257-3156.

Exhibits

Herbert F. Johnson Museum

"Pen, Brush, and Folio: The Art of the Medieval Book," through June 1; "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 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.

Films

Unless otherwise noted, films are sponsored by Cornell Cinema.

Thursday

May 22, 8 p.m. *Uris Hall Auditorium. "The Hour of the Wolf," (1968), directed by Ingmar Bergman with Liv Ullman and Max von Sydow. Co-sponsored with the Scandinavian Club.

Friday

May 23, 7:30 p.m. *Uris Hall Auditorium. "My New Partner," (1985), directed by Claude Zidi with Philippe Noiret and Thierry Chermite.

May 23, 10 p.m. *Uris Hall Auditorium. "Crimes of Passion," (1984), directed by Ken Russell with Kathleen Turner and Anthony Perkins.

Saturday

May 24, 7:30 p.m. *Uris Hall Auditorium. "Crimes of Passion."

May 24, 9:45 p.m. *Uris Hall Auditorium. "My New Partner."

Sunday

May 25, 8 p.m. *Uris Hall Auditorium. "The Lion in Winter," (1968), directed by Anthony Harvey with Katherine Hepburn and Peter O'Toole.

Monday

May 26, 8 p.m. *Uris Hall Auditorium. "The Good, the Bad, and the Ugly," (1967), directed by Sergio Leone with Clint Eastwood and Eli Wallach.

Tuesday

May 27, 8 p.m. *Uris Hall Auditorium. "Shampoo," (1975), directed by Hal Ashby with Warren Beatty and Julie Christie.

Wednesday

May 28, 7:30 p.m. *Statler Auditorium. "The Graduate," (1967), directed by Mike Nichols with

Dustin Hoffman, Anne Bancroft and Katherine Ross.

May 28, 10:15 p.m. *Statler Auditorium. "The Graduate."

Thursday

May 29, 8 p.m. *Uris Hall Auditorium. "Frenzy," (1972), directed by Alfred Hitchcock with Jon Finch and Anna Mossey.

Friday

May 30, 7:30 p.m. *Uris Hall Auditorium. "Dersu Uzala," (1975), directed by Akira Kurosawa with Maxim Munzuk and Yuri Solomon.

May 30, 10:15 p.m. *Uris Hall Auditorium. "Fletch," (1985), directed by Michael Ritchie with Chevy Chase and Tim Matheson.

Saturday

May 31, 7:30 p.m. *Uris Hall Auditorium. "Fletch."

May 31, 9:45 p.m. *Uris Hall Auditorium. "Dersu Uzala."

Sunday

June 1, 8 p.m. *Uris Hall Auditorium. "Don't Look Now," (1974), directed by Nicholas Roeg with Donald Sutherland and Julie Christie.

Music

Every Sunday

Anabel Taylor Edwards Room, 9 p.m. Sing with the Makhela Hebrew Choir.

Saturday

May 31, 2:30 p.m. Bailey Hall. Cornell Bands: Marice Stith, director. Sponsored by the Department of Music.

May 31, 8:15 p.m. Bailey Hall. Cornell University Glee Club: Byron Adams, acting director. Sponsored by the Department of Music.

Religious Services

Catholic

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

Every Sunday, 10 a.m., 5 p.m. Anabel Taylor Auditorium. Mass.

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

Christian Science

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

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

Daily Minyan. Mon.-Fri., 7:30 a.m.; Sun., 8:30 a.m. Young Israel House, 106 West Ave.

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

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

Every Friday, Young Israel House, 106 West Ave. Shabbat Services (Orthodox). For time call 272-5810.

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

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

Korean Church

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

Muslim

Monday-Thursday, 1 p.m. Anabel Taylor 218. Friday, 1 p.m. Anabel Taylor Edwards Room.

Protestant

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

Saturday

May 31, 5 p.m. Anabel Taylor Auditorium. Catholic Graduation Mass.

Sunday

June 1, 8 a.m. Anabel Taylor Auditorium. Catholic Graduation Mass.

June 1, 9:30 a.m. Bailey Hall. Baccalaureate Service. Peter J. Gomes, Minister, Memorial Church, Harvard University.

Seminars

Seminar notices, unlike other calendar notices, do NOT go to Central Reservations in Willard Straight, but should be delivered to the Chronicle office, 110 Day Hall, in writing by noon Friday before publication. Each notice can be run only once, so on Thursday events please note whether you wish it published the day of the event or the week before. Please include the name and telephone number of someone who can be reached if there are questions.

Artificial Intelligence: "AI & Expert Systems in Agricultural Research and Education: A Purdue University Report for the USDA," Ken Birman, Computer Science; Anil Nerode, Mathematics; Richard Rand, Theoretical & Applied Mechanics; 9 a.m.-12:30 p.m. Thursday, May 22, 145 Warren Hall.

Boyce Thompson Institute: "Structure, Distribution and Possible Function of Fungal Fimbrae in the Lower Eukaryotes," A. W. Day, University of Western Ontario, London, Ontario; 3:15 p.m. Wednesday, May 28, BTI Auditorium.

Food Science: "Microstructural Studies in Emulsion-and Protein Research," Dr. I. Heertje, Unilever Research Laboratory, Vlaardingen, Netherlands, noon Wednesday, May 28, 119 Stocking Hall.

May		1986						
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Hillel—New Jewish Agenda: "The Synagogue as Sanctuary — A Jewish Perspective on the Sanctuary Movement," Rabbi Judea B. Miller, Temple B'rith Kodesh, Rochester, 7:30 p.m. Thursday, May 22, Edwards Room, Anabel Taylor Hall.

Poultry Biology: "Metallothioneins: Quantitation and Characterization by Gel Electrophoresis," Lih-Yuan Lin, Poultry and Avian Science, Cornell, 4:30 p.m. Thursday, May 22, 300 Rice.

Sports

Saturday

May 31 Ithaca Flood Control Channel. Men's Heavyweight Crew-Pennsylvania.

Sports School Will Open 7th Year This Summer

The Cornell Athletic staff is gearing up for its seventh annual Summer Sports School, a program that will bring more than 1,000 "campers" to campus for six one-week sessions. The events draw from several foreign countries as well as many parts of the United States, although the majority come from Tompkins County area and other parts of New York.

A typical day might include two instructional sessions, headed by Cornell's varsity coaches, followed by an evening of frisbee and conversation at a free outdoor concert on the Arts Quad. For those who find it more convenient or practical to attend the sports school as commuters, the day ends at 5 p.m. at the end of the afternoon instructional session.

For more information, write to: Peter Mariano, director; Cornell Summer Sports School; Box 729 CUAA; Ithaca, N.Y. 14851; or call 255-7333.

Judicial Administrator

Case Summaries for April 1986

The Office of the Judicial Administrator reports the following case summaries for April, 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 indicated.

Possession of stolen property: WR; 30 hrs CS susp.

Alteration and misuse of a university parking permit: WR; 25 hrs CS susp.

Theft of construction materials from the Performing Arts Center construction site: WR; 25 hrs CS with 15 susp.

Disruption of a university meeting and failure to comply with an order to cease that disruption: WR; 25 hrs CS

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

Attempt to steal food from Robert Purcell Dining: WR; 25 hrs CS

Possession of a stolen K-parking permit: WR; 30 hrs CS susp.

Damage to university property: WR; 15 hrs CS plus \$45.80 rest.

Possession of stolen property and endanger-

Barton Blotter

Three separate thefts of computer equipment valued at \$8,040 were reported on campus, according to the morning reports of the Department of Public Safety for the period May 12 through 18.

More than \$1,800 worth of equipment was stolen from room 3 of Warren Hall sometime between 5 p.m. May 9 and 8 a.m. May 12; various pieces of computer equipment valued at \$3,425 were taken from Olin Hall sometime between 5:45 p.m. May 9 and 7:20 a.m. May 12; and a \$2,785 computer was reported stolen from Statler Hall sometime between 7 p.m. May 13 and 8 a.m. May 14.

There were a total of 25 thefts of cash and valuables amounting to \$10,784 in losses during the seven-day period. These included nine thefts totaling \$371 in cash stolen from wallets and various rooms on campus, including \$150 taken from Noyes Center.

Other thefts included three bicycles worth \$610, \$400, and \$80; \$400 worth of jewelry taken from University Hall No. 4; and two steel-belted tires worth a total of \$200 taken from a car in the West Avenue parking lot.

Five persons were referred to the judicial administrator, one for possession of stolen property and four on separate charges of forging parking permits.

Graduate Bulletin

The next regular meeting of the Graduate Faculty will be held at 4 p.m. Friday, May 20, 1986, in the General Committee Room of the Graduate School, Sage Graduate Center, to approve the list for June 1 degrees.

Summer Graduate Registration (SGR) forms are available at the Graduate School Information desk. You must register if you want to use campus facilities during the summer, are off campus but require credit for summer study, are receiving student aid during the summer, or require proof of registration for outside agencies. Registration must be in person at the Graduate School office. Student ID is required for validation of the SGR form.

Application forms for the Fulbright grants for graduate study or research abroad in academic fields and for professional training in the creative and performing arts are now available. They may be obtained from the Dean's office, 100 Sage Graduate Center, 255-4603.

Assistant Professor One of 20 Named Pew Scholars for Innovative Research

Richard A. Cerione, an assistant professor at Cornell, is one of 20 young, innovative medical researchers nationwide to be named a 1986 Pew Scholar in the Biomedical Sciences. The award, sponsored by the Pew Memorial Trust of Philadelphia, includes a \$200,000 stipend over the next four years.

The Pew Scholars, who are junior faculty members at 17 medical schools and research institutes in the United States, were selected because of their "outstanding promise in basic science or clinical research that will help advance human health," according to the trust. Their research focuses on (human) genetics, cell biology, protein structure, cancer, and other fields of medicine.

Cerione, who is in the Department of Pharmacology at the College of Veterinary Medicine, concentrates his research on vision systems and cell proliferation.

In his vision research, Cerione is interested in how different components in the eye interact to produce sight. One of these components is the light-receptor, rhodopsin, which, upon light absorption, activates other protein components in the signal transduction pathway.

This receptor-coupled signal system is actually serving as a model for the second area of Cerione's work — cell proliferation. In this process, growth factors (such as the epidermal growth factor, EGF) bind to specific cell surface receptors and initiate cellular growth via a signal transduction system analogous to that operating in vertebrate vision.

By applying what he learns about the interactions of the protein components of the vision system to growth factor receptor-mediated processes, Cerione hopes to gain a better understanding of the component interactions responsible for cell proliferation and tumorigenicity.

"The financial support from the Pew Memorial Trust will, we hope, encourage these young investigators to be more venturesome in their other applications for additional research support than would otherwise be likely," said Dr. Robert W. Berliner, the Pew Scholars program director and professor emeritus of physiology and medicine at Yale University School of Medicine, where the program is administered.

PEOPLE

Academy Elects Wendell Roelofs



Wendell L. Roelofs, the Liberty Hyde Bailey Professor of Insect Chemistry at the university's Agricultural Experiment Station at Geneva, is among 89 scientists, public figures, and artists elected to membership this year in the American Academy of Arts and Sciences.

ROELOFS

His election brings to 48 the number of Cornell faculty members in the 206-year-old international honorary society. The academy, with a membership of approximately 2,300, conducts programs of study and distributes publications on issues of national and international importance.

A member of the experiment station's faculty since 1965, Roelofs is known for his pioneering research on the isolation, identification, and synthesis of the insect sex attractants known as pheromones. His studies have greatly improved the management of insect pests, and aided growers in reducing the need for pesticides.

Roelofs is credited with developing a pheromone identification technique, the electroantennogram, to analyze biologically active compounds in pheromone extracts. Insect traps and monitoring devices developed with Roelofs' techniques have become a vital part of orchard pest-management programs.

Previous honors to Roelofs include election to the National Academy of Sciences (1985), the National Medal of Science (1985), the Wolf Prize in Agriculture (1983), and the Alexander von Humboldt Award (1977).

Concrete Institute Honors 3 Cornellians

A scientific paper on high-strength concrete columns has earned an American Concrete Institute medal for two Cornell faculty members and a graduate of the College of Engineering.

The Wason Medal for the most meritorious paper to appear in institute publications was awarded to Arthur H. Nilson, professor of structural engineering, Floyd O. Slate, professor of engineering materials, and Salvador Martinez, a structural engineer with the Boston firm of Stone & Webster Engineering Corp.

The trio was cited for their paper, "Spirally Reinforced High-Strength Concrete Columns," published in the September-October 1984 ACI Journal. Reporting on experimental studies of normal-weight and lightweight concrete columns, the engineers suggested a re-examination of current design procedures.

Huffman's Bibliography Covers 1,000 Languages

Cornell linguistic professor Franklin E. Huffman has completed a 672-page bibliography covering writings on the approximate 1,000 languages of Mainland Southeast Asia.

More than 10 years in the preparation, "Bibliography and Index of Mainland Southeast Asian Languages and Linguistics" was published this spring by the Yale University Press.

The comprehensive and detailed work covers writings in all languages of the area, particularly the period 1960 to 1980, when nearly four times as much material was written than in all previous history. The earliest documents cited date back to the 15th century.

York to ACT Program

After nearly five years as director of admissions, Ann V. York is leaving Cornell to join the American College Testing (ACT) Program in Iowa City, Iowa, as vice president of operations. In that capacity, York will be responsible for several divisions, including the assessment program, financial aid services, and contract services.

Admissions and Financial Aid Dean Susan H. Murphy said an internal search is under way for the director of undergraduate admissions office.

Four Engineering Faculty Receive Innovative Teaching Awards

Four faculty members in the university's College of Engineering have earned Innovative Undergraduate Teaching Awards for their creative instruction techniques in computer science, lasers, and computer algebra.

Three \$1,000 prizes were awarded through a gift from the Justice Foundation, which is made up of Cornell alumni of the Delta Upsilon fraternity. Award recipients were selected by William B. Streett, dean of the engineering college, from nominations by directors of the college's schools and departments.

R. Tim Teitelbaum, associate professor of computer science, was cited for designing a programming development system for microcomputers used in introductory computer science courses. His program has been used in hundreds of educational institutions, according to David Gries, chair of the Department of Computer Science. Gries called Teitelbaum a "superb teacher" who is able to "present complex ideas colorfully and un-

derstandably."

Sharing one teaching award were Terrill A. Cool and Aaron Lewis, professors of applied and engineering physics. They are credited with designing and implementing an undergraduate course on construction and application of lasers. Dean Streett said, "The strong emphasis on 'hands-on' experience in designing, assembling, and performing experiments with nitrogen lasers provides a model for the design of other modern laboratory courses in engineering."

Richard H. Rand, professor of theoretical and applied mechanics, won a teaching award for introducing computer algebra and microcomputers into engineering mathematics instruction. "Your creative and enthusiastic work has introduced a new generation of students to the power of computer algebra and computer calculus," Streett said, "and will benefit many more students in the future."

Vannevar Bush Award Goes to Isidor Rabi

Isidor Isaac Rabi, the Nobel laureate in physics who earned a bachelor's degree in chemistry from Cornell in 1919, has been selected to receive the National Science Board's prestigious Vannevar Bush Award.

A professor emeritus at Columbia University, Rabi received a medal struck for the occasion and a citation.

Among the many contributions for which Rabi is recognized are his efforts in organiz-

ing the first International Conference on the Peaceful Uses of Atomic Energy (1955) and in establishing the International Atomic Energy Agency. He received the 1944 Nobel Prize in Physics for studies of the magnetic properties of atomic nuclei.

Named for the director of the Office of Scientific Research and Development in World War II, the Vannevar Bush Award is given periodically for outstanding contributions in science and technology that are significant to the national welfare. The 25-member National Science Board is the policy-making body of the National Science Foundation.

The award was given last year to Hans A. Bethe, professor of physics emeritus at Cornell.

Learned Societies Gives Grants to 2

A Cornell assistant professor and a postdoctoral fellow were among 37 scholars nationwide awarded \$8,500 fellowships by the American Council of Learned Societies this spring.

The Cornell recipients were Carole E. Newlands, the James Hutton Assistant Professor of Classics, and Jean C. Wilson, a Mellon Postdoctoral Fellow in Art History.

They were among 250 applicants for research grants in the humanities and related social sciences in the program supported in part by the Carnegie Corporation and the National Endowment for the Humanities.

Newlands will work on a critical introduction of Ovid's "Fasti." She joined the Department of Classics in 1984. She earned a Ph.D. from the University of California at Berkeley the same year. Born in Glasgow, Scotland, she also holds an M.A. (1970) from the University of St. Andrews.

Wilson, a postdoctoral fellow at Cornell since 1984, will study painting from the workshop to the marketplace in late medieval Bruges, now part of Belgium. She will be affiliated with the State University of New York at Binghamton starting this fall.

Sheffy Emeritus

Ben E. Sheffy, an expert on animal nutrition and its relationship to diseases, has been elected the Caspary Professor of Nutrition Emeritus in the College of Veterinary Medicine.

A member of the Cornell faculty since 1951, Sheffy served as assistant director of the James A. Baker Institute for Animal Health at the veterinary college since 1963.

In 1975, Sheffy was cited by the government of Taiwan for helping that country eradicate hog cholera. He introduced Taiwan to a "heterotypic" approach to immunization that he had developed with the late Dr. James A. Baker.

A "heterotypic" approach involves creating a vaccine from a related virus that infects some animal species but can be used safely in other species to help prevent a lethal infection of its own disease.

Sheffy is the author and co-author of nearly 270 research papers in his field.

Sheffy was named to the Caspary professorship at the Baker Institute in 1961. He has held fellowships from the Guggenheim Foundation and the National Institutes of Health.

Society Names Thomas Eisner



EISNER

Thomas Eisner, the Jacob Gould Schurman Professor of Biology, and a specialist in chemical ecology, has been elected to membership in the American Philosophical Society.

He is among 23 Americans and three new foreign members chosen by the APS, the oldest learned society in the United States. Founded by Benjamin Franklin in 1741, APS currently has about 500 members. It supports scholarship in all fields of knowledge through its research grants, publications, and history of science library.

Eisner has been a member of the the faculty at the New York State College of Agriculture and Life Sciences at Cornell since 1957. His research, conducted in the Section of Neurobiology and Behavior, is the subject of frequent reports in scholarly journals, popular magazines, and award-winning television documentaries.

Previous honors to Eisner include election to the National Academy of Sciences (1969), the American Academy of Arts and Sciences (1969), the Royal Society of the Arts (1972), and the Akademie der Naturforscher Leopoldina (1986). He has received the Newcomb Cleveland Prize of the American Association for the Advancement of Science (1968), the Founder's Memorial Award of the Entomological Society of America (1969), the Carr Medal for Conservation (1983), and the Procter Prize of Sigma Xi, the scientific research society (1986).

Other Cornell University members of the American Philosophical Society are Meyer H. Abrams, the Class of 1916 Professor of English Literature, Emeritus; Hans A. Bethe, professor of physics, emeritus; Eric A. Blackall, the Jacob Gould Schurman Professor of German Literature, Emeritus; Thomas Gold, the John L. Wetherill Professor of Astronomy; Edwin Salpeter, the James Gilbert White Professor in Physical Science; and Robin M. Williams, the Henry Scarborough Professor of Social Science, Emeritus.

Weiss Honored For Teaching

Lionel I. Weiss, professor of operations research and industrial engineering, is the recipient of Cornell University's 1986 Award for Excellence in Engineering Teaching.

The \$1,500 award is sponsored by the Cornell Society of Engineers, an organization of alumni of Cornell's College of Engineering, and by the Cornell chapter of Tau Beta Pi, the national honorary society in engineering. The recipient is chosen on the basis of student nominations.

Weiss, who also received the teaching award in 1973, is a specialist in statistical decision theory and nonparametric statistics.

Martie Young Named Art History Chairman

Martie W. Young, professor of art history, has been appointed chairman of the Department of Art History in the College of Arts and Sciences through June 1990.

Young, who served as department chairman from 1966 to 1971, has been a member of the Cornell faculty since 1959.

His research interest is in East Asian art history, with an emphasis on 17th-18th century painting. Among his books are "Japanese Painters of the Floating World" (1966) and "Asian Art, A Collector's Selection" (1973). He was also a contributing author to the McGraw-Hill Dictionary of Art (1969).

Young also has been associate director of the Johnson Museum at Cornell since 1984 and has been curator of Asian art since 1963. He is a member of the China-Japan Program and served as its director from 1971 to 1976. He is also a member of the China Committee of the Graduate School, the Institute for Asian Research in New York, and the T.C. Liu Awards Committee.

Number 20

Cornell University

University Personnel Services
Day Hall
Ithaca, New York 14853

Please Post

May 22, 1986

Please Note:

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

ployees 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 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 CUIN-FO, 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.

Requirements: Associates degree or equivalent. Heavy typing. Minimum 2 years experience. Experience with word processor, preferably Exxon. Ability to produce technical manuscripts with statistical notation. Excellent organizational, communication and interpersonal skills essential. Minimum Biweekly Starting Salary: \$482.33

SECRETARY, GR 20 (C204)
 Public Affairs Regional Offices - Wynnewood, PA

Type correspondence, forms, vouchers and other materials; keep records; provide file maintenance; receptionist support; handle meeting and travel arrangements for Director of North Central Regional Offices; handle special projects as needed; interaction by phone and in person with alumni. Public Affairs Regional Offices - Wynnewood, PA.

Requirements: High school diploma required. Secretarial training desired. Medium typing. Minimum 2 to 3 years secretarial experience. Excellent organizational, interpersonal and communication (written and oral) skills. Ability to work independently and use IBM XT or equivalent. Minimum Biweekly Starting Salary: \$468.29

SENIOR INFORMATION ASSISTANT, GR 20 (C2011)
 Physical Sciences Library

Manage computerized literature searching of scientific databases; coordinate conference proceedings project. Full-time, regular, requires evening hours.

Requirements: Bachelors degree or more advanced degree in chemistry. Light typing. Minimum 1 to 3 years experience in computerized searching of scientific databases. Demonstrated ability in interpersonal communication and public relations. Minimum Biweekly Starting Salary: \$468.29

SECRETARY, GR 18 (C2013)
 Agricultural Economics

Provide secretarial, administrative and research support for two professors. Support the professor's programs in teaching, research and extension. Type and edit manuscripts; use word processor.

Requirements: High school diploma or equivalent. Business or secretarial school desirable. Heavy typing. Minimum 1 to 3 years experience. Ability to type and edit manuscripts. Knowledge of Word/Word Perfect (word processing software) and its use on an IBM PC or similar equipment. Minimum Biweekly Starting Salary: \$431.43

STACKS SUPERVISOR, GR 18 (C208)
 Law Library

Responsible for maintenance of Law Library collection, including shelving, updating materials, shelf-reading and monitoring collection growth to assist in the planning and execution of stack shifts; generally responsible for copy and microform machine maintenance; supervise and train student assistants in collection maintenance and copy machine procedures; assist in staffing Circulation Desk; responsible for opening and closing, supervision of Circulation Desk and library policy enforcement on Saturdays. Light typing. Full-time, regular; Tuesday - Saturday, 8:00 - 5:00.

Requirements: Associates degree or equivalent. Library experience preferred but not essential. Supervisory experience helpful. Attention to detail and ability to work independently. Minimum Biweekly Starting Salary: \$418.85

SECRETARY, GR 18 (C206)
 Arts & Sciences Dean's Office

Provide secretarial/receptionist support. Type, answer telephone; maintain records; file. Other duties as assigned.

Requirements: High school diploma or equivalent. Business or secretarial school desirable. Medium typing. Minimum 1 to 2 years experience. Knowledge of or willingness to learn word processor. Good organizational, interpersonal and communication skills essential. Minimum Biweekly Starting Salary: \$418.85

SEARCHER, GR 18 (C2012)
 Collection Development - Olin Library

Hire, train, schedule and supervise student assistants; manage workflow to support selectors' collection work; revise student bibliographic searching; resolve intricate bibliographic searching problems independently using multi-language tools; complete special projects supporting collection development including projects utilizing IBM micro; train collections staff in use of micro software.

Requirements: Associates degree or equivalent. Light typing. Ability to work independently. Good interpersonal skills. Previous experience in library technical services desirable. Willingness and interest to learn IBM micro software. Knowledge of at least one Western European language. Minimum Biweekly Starting Salary: \$418.85

Technical

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

ACCELERATOR OPERATOR, GR 24 (T203)
 Lab of Nuclear Studies
 Perform skilled work in the operation of a com-

Continued on Page 7

Job Opportunities

Cornell University is an equal opportunity, affirmative action employer.

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.

ASSISTANT VICE PRESIDENT FOR RESEARCH AND DIRECTOR, OFFICE OF SPONSORED PROGRAMS (PA196) (Repost)
 Vice President for Research

Direct the Office of Sponsored Programs and assist the Vice President for Research and Advanced Studies in administering research policies and affairs.

Requirements: LLB, MBA or equivalent. Extensive experience in a major university in contract negotiation and administration, in application of research policies and in grant management practices, as well as financial and personnel management. Please send cover letter and resume by June 12 to Cynthia Smithbower.

JUDICIAL ADMINISTRATOR (P2010)
 President's Office

Process civil, criminal and civil rights complaints under the Regulations and Maintenance or Public Order and the Campus Code of Conduct; sole adjudicator of most cases.

Requirements: J.D. or legal training; sensitivity to concepts of justice, due process, procedure and reasonable experience in counseling, dispute resolution or related personnel work. Please send cover letter and resume to Patricia E. Hutton by May 10, 1986.

EXECUTIVE STAFF ASSISTANT I (PC207)
 Vice Provost

Provide primary staff support to the Vice Provost for Undergraduate education. Assist the undergraduate units in addressing University-wide issues; oversee various academic support units; act as secretary to the Academic Affairs Committee of the Board of Trustees; handle special projects as assigned.

Requirements: Bachelors degree or equivalent. Excellent writing, verbal, and interpersonal skills. Minimum 3 to 5 years general administrative office experience. Ability to work independently, often under a great deal of pressure, and to manage several tasks simultaneously. Experience in word processing. Knowledge of University life required. Knowledge of Cornell community and its operating procedures extremely desirable. Please send cover letter, resume or call in confidence to Esther L. Smith by June 6. Minimum Starting Salary: \$14,170

APPLICATIONS PROGRAMMER I (PT204)
 Computer Services (APS)

Maintain, develop and install, document, and modify administrative systems software.

Requirements: Bachelors degree with computer-related courses or the equivalent combination. Some experience with machine architecture, programming languages (NATURAL, PL-1, COBOL, MARK IV) and system utility programs necessary. Please send cover letter and resume to Cynthia Smithbower by May 30, 1986. Minimum Starting Salary: \$17,000

TEACHING SUPPORT SPECIALIST I (PT203)
 Biochemistry, Molecular & Cell Biology

Provide teaching support services for teaching faculty including preparation of regents, set-up and maintenance of equipment, instruction of students in laboratory course; may lead discussion group. August 1, 1986 through academic year.

Requirements: Bachelors degree in chemistry or related area; Masters degree desirable. Experience working as a technician in biochemistry or related laboratory essential. Experience working with students and in lab techniques taught in a biochemical methods course to undergraduates. Teaching experience desirable. Please send cover letter and resume by May 30, 1986 to Cynthia Smithbower. Minimum Starting Salary: \$14,170

RESEARCH SUPPORT SPECIALIST I (PT205)
 Equine Drug Testing & Research

Perform independent analysis of horse blood and urine. Act in absence of Lab Directors as needed throughout field labs in NYS.

Requirements: Masters degree in chemistry or Bachelors plus several years experience. 2 years ex-

perience in the analysis of drug and drug metabolites in horse blood and urine. Operation of Analytical Instrumentation (GC and GC/MS). Please send cover letter and resume by June 6 to Cynthia Smithbower.

Minimum Starting Salary: \$14,170

ADMINISTRATIVE MANAGER I (PC209)
 Investment Office

Provide administrative support to Chief Investment Officer and investment staff. Manage administrative operations of Investment Office; office—personnel manager; oversee clerical staff. Budget preparation; statistical work; report generating; work closely with administrative and board members; secretary to Trustee's Investment Committee.

Requirements: Bachelor's or equivalent. Minimum 5 - 7 years administrative/secretarial experience, preferably in an academic setting. Cornell experience essential. Confidentiality a must. Excellent organizational, interpersonal and communication (written and verbal) skills. Knowledge of word processors and IBM PC. Investment experience a plus. Please send cover letter and resume or call in confidence to Esther L. Smith by May 28, 1986.

BUDGET ADMINISTRATOR (PA212)
 Endowed Budget Office

Coordinate development and implementation of computer-based budget systems on central and microcomputers. Develop standard budget reports and ad hoc capabilities and budget work schedule and instructions. Work with Budget Director to prepare and publish operating budget to Trustee. Oversee operating budget throughout the year for conformity to approved guidelines. Forecast end-of-year results of operations. Review and analyze budget proposals. Counsel and advise units on policies and procedures. Please send cover letter and resume to Ralph D. Jones by May 30, 1986.

Requirements: MBA. 3 to 5 years work experience; strong systems skills; excellent communication skills.

ASSISTANT TO THE DEAN (PC208)
 Graduate School

Provide administrative support to the Dean. Draft a wide range of correspondence; coordinate office operations; assist in preparation of budget. Oversee general accounts; handle inquiries; handle special projects as assigned.

Requirements: Bachelor of Arts degree or equivalent. Minimum 3 to 5 years administrative—secretarial experience. Experience and/or study in Graduate Education very helpful. Excellent organizational, interpersonal and communication (written and verbal) skills. Confidentiality a must. Please send cover letter and resume to Esther L. Smith or call in confidence by May 28, 1986.

STAFF WRITER I (PC206)
 Physical Education and Athletics

Prepare releases for media outlets under the direction of the Sports Information Director. Write features on Cornell athletes and coaches; report results of competition; write and edit press guides; brochures and programs; compile and maintain statistical and historical data; supervise the press box; set up photo sessions for teams and edit the Big Red Report newsletter; edit coaches newsletters; supervise student employees as assigned.

Requirements: Bachelor's degree or equivalent in communications or journalism; some business courses desirable. Public relations experience desirable. Proven written and editing skills necessary. Please send cover letter, writing sample and resume to Esther L. Smith or call in confidence by June 6, 1986.

APPLICATIONS PROGRAMMER III (PT193)
 Mechanical and Aerospace Engineering

Responsible for continued development of large, sophisticated software package. Includes documentation, development of new applications and system utilities to support ongoing application development.

Requirements: Bachelor's in a technical field; Master's helpful. Programming experience in PL-1, C, UNIX, color graphics and distributed processing. Please send cover letter and resume to Cynthia Smithbower by May 23, 1986.

TECHNICAL CONSULTANT II (PT145) (Repost)
 NYSSILR, Resident Division

Aid and assist faculty and students in computer related instruction and research projects using Cornell's computer system and microcomputers.

Requirements: Bachelor's degree with some ex-

perience using statistical packages and experience with Cornell mainframes. Ability to explain computing procedures. Please send cover letter and resume to Cynthia Smithbower.

TECHNICAL COORDINATOR (PT111) (Repost)
 Systems Office-Olin Library

Under direction of project leader, provide technical support to Library automation efforts, particularly regarding microcomputer applications; support includes microcomputer hardware and software needs as well as communications (network) help with various mainframe computers; individual will be involved in training and education of library staff in the use of computers.

Requirements: Bachelor's degree or equivalent. Microcomputer experience, both Apple Macintosh (Microsoft Word, EXCEL) and IBM PC (WordPerfect, dBase III). Excellent oral and written communication skills; knowledge of IBM mainframe a plus. Training experience helpful. Please submit cover letter and resume to Michele Draiss, 235 Olin Library. Minimum Biweekly Starting Salary: \$543.50

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 questions.

ADMINISTRATIVE AIDE, GR 21 (C203)
 Computer Science

Provide administrative assistance to the teaching faculty in the execution of undergraduate computer science courses. Supervise the staff (both student and clerical) in the preparation of course materials; act as liaison between teaching staff and students.

Requirements: Associates degree or equivalent. Minimum 2 years administrative/secretarial experience. Substantial experience in a university environment desirable. Knowledge of general course content of Computer Science courses. Ability to identify and delegate work. Knowledge of technical typing. Ability to determine statistical information. Supervisory experience. Organizational and interpersonal skills. Minimum Biweekly Starting Salary: \$497.40

SECRETARY GR20
 Department: Chemistry

Description: Provide administrative/secretarial support to a Nobel Prize winning professor and his research group. Administer seminars sponsored by the department; maintain communication between research group and professor during his frequent absences; manage production of manuscripts and research proposals; arrange travel.

Part-time regular; Monday-Friday, 9:00am - 1:00pm.

Requirements: Associates degree or equivalent. Heavy typing. Minimum 2 to 3 years experience. Knowledge of Cornell's manuscript and grant proposals processing and travel systems desirable. Ability to read German and/or Russian and general knowledge of chemistry helpful. Minimum biweekly Starting Salary: \$468.29

SECRETARY, GR 20 (C209)
 NYSSILR, Economics & Social Statistics

Provide secretarial/clerical support to professors in department. Utilize Exxon word processor for manuscripts, correspondence and coursework, much of the material is technical and uses statistical notation; act as receptionist; arrange appointments and meetings; file; maintain records. Other duties as assigned.

Department of Public Safety

Just How Far Will Public Safety Officers Stretch? Studies Show Stress Factor Is Very High

This is the last of three articles on the Department of Public Safety at the university.

By ELAINE MAIN

The odds are stacked against a healthy retirement for Cornell's public safety officers. In the past 10 years, two retired in good health, but three retired because of job stress.

One quarter of the public safety department employees are divorced.

Three months ago, a safety officer's sister-in-law, who was a law enforcement officer in another state, committed suicide.

"Police officers have the highest stress rate of any occupation in the nation," Randall Hausner said, between bites of the sandwich he ate at his desk in Barton Hall. That sandwich was preceded by two pills "for my ulcer," he said.

A national occupational survey has tallied dangers of the law enforcement profession. Thirty-seven percent of officers questioned had serious marital problems, 23 percent serious alcohol problems, 20 percent serious problems with their children, and 10 percent serious drug problems. Officers commit suicide at a rate several times the national average, and they suffer the highest numbers of health problems such as heart attack, stomach disorder, early death, and diabetes.

A web of stressors affect officers. Schedules are harried. Hours of work change periodically, and holidays are work days.

Joe Carsello, a university service officer, said, "The biggest problem in the job is hours. The odd schedules are tough on family life, and many marriages have broken up."

Ask Mike Lummuka about conflicting schedules. His wife, Sandra, works in Balch Hall — during the day, of course. He works from 3 to 11 p.m., so to see her he stops at Sandra's office as his shift begins.

"It's hard to communicate when you don't see each other," he admitted in an interview with the Chronicle.

Sometimes Lummuka finds he can't forget his job on days off. Recently, he volunteered in the search for the body of his friend William Chapin, a law enforcement officer at Ithaca College who drowned in a mid-March rescue attempt in Buttermilk Creek. The first victim was a Cornell University junior.

"It bothers my wife," he said. "Wherever I go, I'm noticing little things, like 'What's that guy doing over there?' You don't leave the job. You try to be an officer all the time — especially when you're a rookie."

Al Jenkins is not a rookie. He has been a patrol officer for 15 years, but he still amazes his wife.

"When I'm driving with my wife, we'll drive up to a stop sign, and I'll look at a car approaching and say, 'That car is going to run the stop.' How do I know? The driver made no eye contact with other vehicles when he approached."

To learn about the preoccupation of the profession, ask William McDaniel, director of public safety at Cornell, about his hobbies. "My avocation is my vocation," he quipped.

It gives credibility to the joke about a cop's reaction to Leonardo da Vinci's paint-

You Can Reduce Public Safety Officers' Stress Level

1. Greet and talk with public safety officers.
2. Remember that public safety officers did not write the laws they enforce.
3. Be careful not to cause a false alarm. If a false alarm has occurred, call the public safety office promptly.
4. Let public safety officers know you appreciate their service.

ing of "The Last Supper."

"When I saw that painting, I thought to myself, 'This guy really understands cops. If you notice, they're all on the same side of the table, watching the door.'"

What comes through the door or what patrol officers might find on the next emergency call is another stressor. They live on the brink of emergencies, and they must always be ready to respond.

William D. Gurowitz, Cornell's vice president for campus affairs, understands that stress, because he was with an officer who had to brace herself for a response.

"An emergency came up, and she had to make a decision instantly. In this case, she decided to do nothing, and the situation dissipated. Immediately, I could sense her tremendous letdown. Her adrenalin was still flowing, but she couldn't stop to unwind before going on. This creates tremendous stress."

So does the impending danger, and police officers know how often their colleagues across the U.S. are killed or injured in the line of duty. In 1984, 72 law enforcement officers in the U.S. lost their lives and 60,000 were injured, one injury for every six law enforcement officers.

Ted Pless, Cornell's crime prevention manager, worries about the number of false burglar alarms to which officers must respond. For example, false alarms occur when people enter buildings without punching in the proper number code.

"When you cause a false alarm, two armed police officers respond," Pless said. "They are thinking burglary and robbery. Yet, each night they must respond to an average of two false alarms. It's not fair to ask them to gear themselves that many times for

Continued on Page 8



Running five miles a day relieves some stress for Randy Hausner, assistant director of public safety, but his lunch still includes ulcer pills. He realizes that the mix of a dangerous emergency, instant response, strenuous action, and a spurt of adrenalin can trigger heart attack.

Job Opportunities

Continued from Page 6

puter-controlled accelerator system and on special projects related to maintaining and improving components of the system.

Requirements: Associates degree in electronics or comparable training through similar in-service courses or programs, or a Bachelors degree in physics. 3 to 5 years of experience in a research laboratory or shop. Apply by June 6, 1986. Rotating shift work.

Minimum Biweekly Starting Salary: \$589.53

TECHNICIAN, GR 22 (T204)

Biochemistry, Molecular & Cell Biology
Provide technical support for research in molecular biology. Plan experiments on a day to day basis given the overall problem; search the literature and work up new methods. Order supplies; responsible for monitoring radiation safety and lab computer facility.

Requirements: Bachelors degree in biochemistry; Masters helpful. Prior experience in literature searching and designing and performing experiments. Apply by May 30, 1986.

Minimum Biweekly Starting Salary: \$539.94

LABORATORY TECHNICIAN, GR 20 (T205)

Chemistry
Assist in carrying out research projects on mechanisms of novel enzymatic reactions. Involves growing cells, enzyme isolation, characterization and assays and organic synthesis. General laboratory duties such as ordering chemicals and equipment and inventory.

Requirements: Bachelors degree in chemistry or biochemistry. One year previous research experience. Please send cover letter and resume to Cynthia Smithbower by May 30, 1986.

Minimum Biweekly Starting Salary: \$468.29

TECHNICIAN, GR 18 (T201)

Natural Resources - Bridgeport
Provide assistance in fisheries research program. Help sample fish populations in various types of gear; identify organisms, sort, prepare and process samples; summarize data; input data into microcomputers; prepare and maintain sampling equipment. Until March 31, 1987; continuing on an annual basis pending contract funding.

Requirements: Bachelors degree in biology; preferably some area of aquatic biology, natural resources or related field. Must be able to swim. Experience sampling fish populations, use of microcomputers, familiarity with spread sheets and word processing, minor maintenance and construction of fish sampling gear including boats and outboard motors.

Minimum Biweekly Starting Salary: \$431.43

TECHNICIAN, GR 18 (T202)

Floriculture & Ornamental Horticulture
Receive, code and prepare samples for chemical analysis; chemically analyze samples by instrumental and colorimetric methods; prepare computer-generated reports to clientele; and carry out normal lab functions in the manager's absence. Will serve in both the Departments of Pomology and Floriculture and Ornamental Horticulture.

Requirements: Associates degree in biology, agriculture or related field. 1 to 2 years of lab experience. Apply by May 30, 1986.

Minimum Biweekly Starting Salary: \$431.43

Part-time

SENIOR ADMINISTRATIVE SECRETARY, GR 20 (C2010)

Society for the Humanities
Handle selection procedures for Jr. Fellows; make arrangements for housing, visa and tax clearance; type correspondence and manuscripts for Fellows; order supplies and equipment; shared responsibility for bookkeeping and budget. Other duties assigned. Part-time, regular; 10 months, Monday - Friday, 8:00 - 4:00.

Requirements: Associates degree or equivalent. Heavy typing. Experience using WordPerfect with the IBM PC or XT or willingness to learn) is essential. Knowledge of Cornell procedures and accounting system is preferable. Ability to work independently and good human relations and communication skills are essential.

Minimum Biweekly Starting Salary: \$468.29

RECORDS ASSISTANT, GR 16 (C207)

Catalog - Olin Library
Participate in a project to convert library catalog records into machine readable form using RLIN system by inputting original. Other duties as assigned. Part-time, Regular until June, 1987; Monday - Friday 20 hours per week; flexible.

Requirements: High school diploma or equivalent. Medium typing. Data entry and/or office experience helpful. Ability to perform detailed and repetitive tasks accurately.

Minimum Biweekly Starting Salary: \$378.73

ANIMAL ATTENDANT - 4 positions (G1910)

Lab of Animal Services
Care for and feed small animals. Other duties as assigned. Weekends and holidays only (up to 20 hours/week).

Requirements: High school diploma or equivalent. Small animal experience preferred. Able to lift 50 pounds. Apply in person at the East Hill Plaza Employment Office, Monday-Friday, 9 a.m. - 12 noon.

Minimum Starting Salary: \$4.00/hour

Temporary

TEMPORARY OPPORTUNITIES: Individuals qualified for temporary work in the following areas are encouraged to apply: clerical, secretarial, word processing. If you have experience or skills in these or related areas and are interested in learning more about these opportunities, please call Laurie Worsell at 255-5226.

TEMPORARY PROGRAMMER/ANALYST (T161) (Repost)

Johnson Graduate School of Management
Develop a financial reporting system on the College's VAX minicomputer; develop a systems specification detailing the functional requirements, technical configurations and interfaces with the University system; design and program the system. Train staff in system's use.

Requirements: Experience in systems analysis and well-developed programming ability. Knowledge of the University accounting system helpful.

Please send cover letter and resume to Karen Clifford.

TEMPORARY TESTING CENTER SECRETARY (C205)

Physics
Operate autotutorial Physics Testing Center; maintain exam files and student records; collate exams, figure sheets and answer sheets; hand out, collect and correct exams using answer keys; monitor deadlines; arrange tutoring; maintain TA time and attendance; assist course administrator. Part-time, temporary until August 15, 1986. Monday - Friday, 12:00 - 4:30 pm.

Requirements: High school diploma or equivalent; some college experience helpful. Light typing. Strong interpersonal and organizational skills. Ability to work effectively with people under pressure. Knowledge of basic office skills with emphasis on filing and cataloging.

TEMPORARY COLLECTION REPRESENTATIVE (C222) (Repost)

Bursar
Perform duties involved in the collection of delinquent student loan accounts. Duties include researching student loan accounts, 'skip tracing', initiating telephone and written communication with delinquent loan accounts, making suitable repayment arrangements with delinquent borrowers. Tuesday, Wednesday, Thursday, 4:30 p.m.-8:30 p.m.

Requirements: High school diploma or equivalent. Ability to effectively communicate via the telephone and letter. Person must be self-assured and possess the maturity to effectively present the University's position with diplomacy and tact. Please send cover letter and resume to Esther L. Smith.

Academic

TEMPORARY, PART-TIME LECTURER IN INTRO. BIOCHEMISTRY COURSE (1 academic year) (A201)

Section of Biochemistry
Contact: Dr. Renee Alexander, 229 Stimson Hall

FACULTY POSITION (A202)

Veterinary Microbiology - James A. Baker Institute for Animal Health
Contact Dr. D.D. McGregor, Director, James A. Baker Institute for Animal Health, NYS College of Veterinary Medicine,

PROFESSOR OF POLYMER CHEMISTRY (A203)

Department of Chemistry
Contact John R. Wiesenfeld, Department Chairman by July 3, 1986.

TEACHING ASSOCIATE POSITIONS (A204)

Department of Modern Languages
Although there are no definite hiring plans at present, teaching associate positions sometimes become available on short notice to teach Bengali, Burmese, Cambodian, Chinese (Mandarin and Cantonese), English, Finnish, French, German, Hindi, Indonesian, Italian, Japanese, Nepali, Polish, Russian, Sinhala, Spanish, Swedish, Tamil and Vietnamese. Please contact Sally McConnell-Ginet, Department of Modern Languages and Linguistics, Morrill Hall

Typists Listed

The Reference Department of Uris Undergraduate Library maintains a listing of typists willing to prepare term papers, theses, etc. If you are a typist and are interested in having your name included on that listing, please fill in the form below and bring or send it to the REFERENCE DEPARTMENT, URIS LIBRARY.

(Name)

(Address & Phone) (office & home)

(Type of machine/type face)

(Rate charged p/page (sgl or dbl spaced))

(Type of work done) (e.g. theses, technical repts., legal or foreign materials.)

(Pick up and/or delivery service (free or charge?))

Tashkovich

Continued from Page 1

ator of the San Diego Supercomputer Center; and Larry L. Smarr, director of the National Center for Supercomputer Applications at the University of Illinois, Champaign-Urbana.

Scheduled topics in the morning-long symposium include the current status and future plans of the supercomputer centers, as well as the newly established NSFnet communications network and the NSF New Technologies Program.

Tashkovich suggested the AAAS symposium on supercomputers last summer when he was an intern for Jennings, then program director at NSF for networking. Believing that a previous proposal for a 1985 symposium on computer ethics was rejected because of his lack of credentials, he enlisted Jennings' support as a co-organizer in 1986.

But Tashkovich's involvement in computing, which led to an international reputation as an expert in networking, began much earlier.

In the eighth grade of Fox Lane Middle School, Bedford, NY, he taught himself computer programming. Two years later, at Fox Lane High School, he became a student member of the AAAS, intending to pursue a career in the physical sciences or computer science.

Then, as a college freshman, Tashkovich reached two conclusions: computer science as taught at Cornell was too theoretical for his taste, and the field of computer programming was becoming overcrowded. The real need, he found, was for communication between the various non-profit academic and research computer networks.

Unlike commercial networks such as Telenet and Tymnet, with their sophisticated international information centers, communicating from the European network EARN to the Australian network ACSnet, for example, was a bewildering process of trial and

error. Without knowing which networks to use, the proper syntax for each, and the location of network gateways, a West German scholar trying to reach another in Australia might have better luck stuffing a message in a bottle.

To speed communication between these "electronic islands," Tashkovich prepared a database on more than 20 networks around the world. The database is a central repository of information on the ever-growing system of non-commercial computer communication systems that use overland telephone lines, trans-oceanic cables, and microwave and satellite communications.

As a voluntary inter-network consultant to EARN and one of two North Americans on its technical committee, Tashkovich maintains the database on NETSERV, a type of automated clearing house called a distributed server system. Today, with distributed servers in each European country, the U.S., and Canada, network users can query the closest server. That avoids tying up international lines as network users seek the best communications pathway.

The Cornell undergraduate recently was asked to participate in a NASA project on international networks. Tashkovich will be paid an honorarium for that service, but most of his network liaison work is performed for free.

When he logs on a Cornell terminal to "open" his electronic mail, which includes as many as 30 files a day from around the world, he finds communications addressed to "Dr. Tashkovich."

"I realize I am developing a reputation as an inter-networking expert," he says. "I am on the crest of a wave — networking — with people twice my age."

Appropriately, he adds, most arrangements for the AAAS symposium on supercomputers were made with computer networks.

— Joseph D. Novak, professor of science education, will chair a May 29 symposium on "Recent Advances in Learning Theory and Implications for Science Education" and will speak on helping students learn how to learn science and mathematics.

— Effects of magnesium deficiency on bone will be the topic for Ruth Schwartz, professor of nutritional science, at a May 29 symposium on "Magnesium in Health and Disease."

— Kenneth G. Wilson, director of Cornell's national supercomputer center and the James A. Weeks Professor of Physical Science, and Kenneth M. King, vice provost for computing, will speak at a symposium on "The Status of the NSF Supercomputer Initiative." Presiding over that May 29 symposium will be Gligor Tashkovich, a Cornell junior majoring in government.

AAAS

Continued from Page 1

Mathematics; and Robert O. Pohl, professor of atomic and solid state physics.

— Walter R. Lynn, director of the Cornell Program on Science, Technology, and Society and professor of environmental engineering, is a participant in a May 28 symposium on "Directions in Engineering Research: An Assessment of Opportunities and Needs."

— Agronomy graduate student Maryanne Sarrantonio will speak on ecological agricultural research in a May 28 symposium, "Beyond the Hothouse: How Should the Real World Enter the Research Environment?"

— People and irrigation development in developing countries will be the topic for E. Walter Coward, professor of rural sociology, in a May 29 symposium.

Safety

Continued from Page 7

an emergency only to discover it was a false alarm."

Pless said that even when a phone caller reports that an alarm was false, one officer is still dispatched to check the situation.

The same seriousness accompanies Blue Light calls from campus emergency phones. When a Blue Light call is received, an officer is dispatched quickly and arrives within a minute — often within 35 seconds, according to department statistics. Yet, 112 times last year the officer found no one at the phone. Such situations not only tie up the force's available officers but also make it hard to approach each call with the seriousness of an emergency.

Other things that raise an officer's stress barometer are:

— Keeping up with the endless paperwork that validates each moment of an officer's work shift and takes one-fourth of his or her time.

— Knowing litigation is inevitable and consumes time and energy.

— "Taking" the abuse that is really aimed at society but gets directed at the officer.

— Learning that cases have been thrown out of court.

— Continuing to do a good job despite cutbacks and stretched facilities.

Public safety officers always will deal with stresses, but Vice President Gurowitz said they should feel satisfaction from knowing how valuable they are.

"If there were no Cornell public safety department, it would burden the city police department and the county sheriff," he said. "Cornell would have much less law enforcement coverage, and crime prevention would drop. Other agencies already are stretched thin."

Tompkins County Sheriff Robert Howard agrees.

Flat Tire Hurts Cornell Birders In 'World Series'

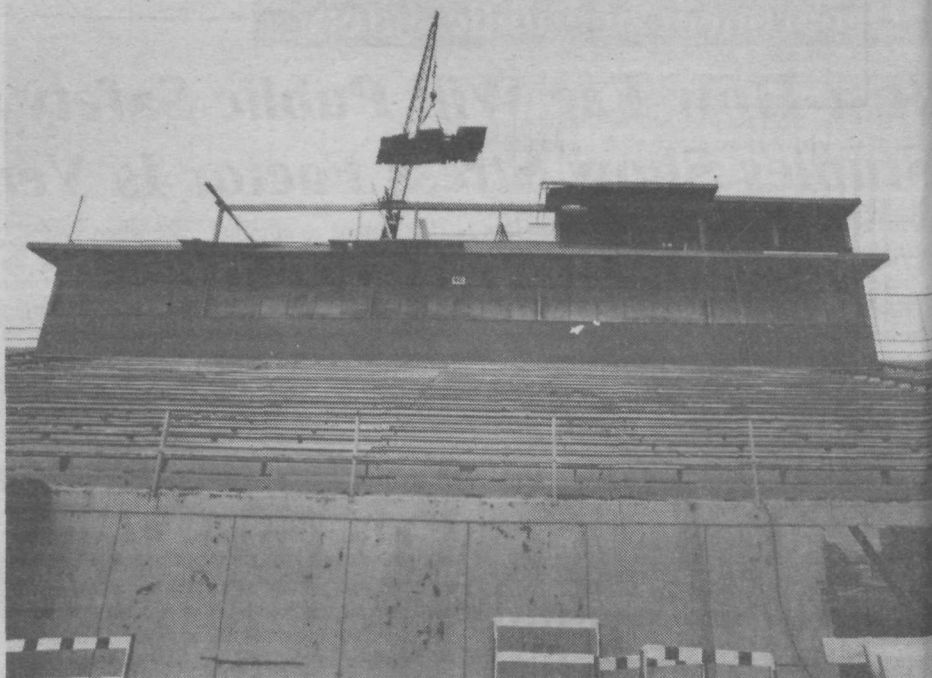
Cornell's Laboratory Sapsuckers, the team from the university's Laboratory of Ornithology, counted 169 bird species in the 24-hour World Series of Birding last Saturday in New Jersey.

Their marathon effort netted about \$15,000 in pledges for the laboratory's education and research programs, but it wasn't enough to win any prizes.

First place for an out-of-state team went to the National Geographic Society, which identified 178 species. Overall, the Cornell bird watchers finished 13th out of 25 teams.

Patching a flat tire delayed the Sapsuckers half an hour, team leader Richard Bonney reported. Other team members were Charles R. Smith, Gregory Butcher, Kenneth Rosenberg, and Michael Braun.

A highlight of the dash through the Garden State was the discovery of an olive-sided flycatcher, an unusual species this time of year in New Jersey. The Sapsuckers spotted their first species, a yellow-breasted chat, at 12:05 a.m., and heard the 169th, a horned lark, at 11:20 p.m.



The pressbox atop the west stands in Schoellkopf field is dismantled in preparation for construction of a new, larger facility that will be built atop the new parking garage being built just behind the stands.

Nutritionists Train Children as 'Choosy Chewers'

By JOSEPH SCHWARTZ

A teaching innovation created by nutritionists at Cornell could change New York's elementary schoolchildren from junk food junkies to "Choosy Chewers."

"Choosy Chewers are students who know how to make the right choices when they are in a lunch line, in a fast food restaurant, or in front of a vending machine," says Martha Mapes, a senior Cooperative Extension associate with the Division of Nutritional Sciences, a joint unit in the College of Human Ecology and the College of Agriculture and Life Sciences.

Mapes and her colleagues are responsible for creating a major change in "Nutrition Comes Alive," the state's elementary school nutrition teaching curriculum.

The new version of this curriculum expands the content of its lessons, places greater emphasis on helping children differentiate between opinion and fact, and encourages students to use their own critical thinking skills.

"Teachers are helped to provide practical situations so students can use their thinking skills to take increasingly personal responsibility for their food choices," Mapes says.

A key feature of the new edition, which is free to all elementary teachers, is the integration of nutrition education into subjects such as math, language arts, science, social studies, and health.

Nutrition Comes Alive consists of a lesson plan booklet, student worksheets ready for photocopying, and colorful posters that can be used in the classroom.

Teachers, hard pressed to stress fundamental skills in the classroom, like imaginative ways to weave food, nutrition, and exercise into their choices, fits well with an elementary school's social studies curriculum. Also, teaching students to read and understand labels can be taught in the context of reading, social studies, or science.

One professional educator who can attest to the value of Nutrition Comes Alive is Susan Warner, a third-grade teacher at the Northeast Elementary School in Ithaca. Warner not only helped Mapes write the curriculum, but also uses it extensively in her classroom.

The results, Warner says, are outstanding. "Children responded well. They brought in cereal boxes, and we taught them to read the labels and to look at the ingredients," Warner explains. "They became aware of price as well as a cereal's content of vitamins, salt, and sugar."

Environment Films Judged Here

Films and videotapes in the "Environment and Ecology" category for the 28th annual American Film and Video Festival were judged recently at Cornell. The festival will be held in New York City May 27-June 1.

Cornell's Audio-Visual Center selected specialists to judge the 25 educational film and video entries. The subjects judged were water quality, waste disposal, acid rain, wildlife and people in conflict, agriculture, tropical rainforest destruction, recycling, the greenhouse effect, turtle trapping, reforestation, land use, and alternative energy sources.

Judges included David Gluck, president, and Peter Carroll, editor, both of Photosynthesis Inc., Ithaca; Liz Stevenson, associate director of the Finger Lakes Library System;

David Weinstein, a staff scientist with the Ecosystems Research Center at Cornell; and Lyle Raymond, a water resources specialist with the Center for Environmental Research at Cornell.

Other judges were James P. Lassoie, associate professor of natural resources; Kenneth Cobb, a Cornell Cooperative Extension specialist; and Daniel Booth, producer of broadcast programs in the ETV Center, all at Cornell. The chairman of the committee was Carol Doolittle, coordinator of Cornell's Audio-Visual Center.

Seven of the 25 entries judged were sent to the national film and video festival, which is sponsored by the Educational Film Library Association.

'Cameraless' Film About a Myth

"Cycle," a four-minute, animated film, has been produced without using a camera by Robert Ascher, professor of anthropology in the College of Arts and Sciences.

Drawing on theories of myth, film, and dream, his hand-painted cultural anthropological film is of an Australian non-sacred myth. The "cameraless" film was made by drawing thousands of pictures directly onto film. In this case, special color pens and inks applied to brushes, sponges, and cloths were used to draw the pictures on 35 mm film. That film was then transferred in the laboratory to projection film.

The film, with 7,200 drawings, does not look like ordinary films. Notable differences include vibrant colors and images that are somewhere between abstract and representational and have a dreamlike quality. All of these contribute to the visualization of a myth. In this way, technique and subject are wed.

The words and images in the film are from

the Wulamba, a native people of northeastern Australia. The sound track is a Wulamba secular poem. The narrator assumes familiarity with the myths of the Wulamba, but does not tell a myth. Central figures in Wulamba mythology are recalled by using poetic devices, particularly the repetition of key words. The process is a never-ending cycle relating people, the spiritual world, and the natural environment.

Peoples, Ascher says, reveal their basic understandings of what the world is all about through their myths. It is through myths that we come to appreciate and know what is basic in other "exotic" cultures, he adds. "Cycle" is intended for anyone — from children to college students and working adults — who are interested in learning about how others view the world.

The film is also available on videotape. For more information, contact the Cornell University Audio-Visual Center, 8 Research Park, Ithaca, NY 14850-1247.