



Marcia Durso (left), a graduate student in Floriculture and Ornamental Horticulture and Carol Moore, a senior in Landscape Architecture, are enjoying the experience of seeing their plans come to life. Their design for the landscape architecture of the lobby of the new Boyce Thompson Institute was approved by Professor Marvin Adleman as a project in lieu of a term paper in his course on landscape architecture.

New Boyce Thompson Institute To Be Dedicated Next Tuesday

The new home of the Boyce Thompson Institute for Plant Research, on the upper campus next to the Veterinary College, will be dedicated at ceremonies beginning at 10 a.m. Tuesday, April 24, in the James Law Auditorium of the college.

The ceremonies culminate nearly a decade of negotiations and planning that enabled the 55-year-old mission-oriented research institute to leave the congested New York metropolitan area while remaining within New York State.

The building, for which the New York State Legislature provided \$8.5 million in 1973, has been occupied by BTI researchers and other staff since last fall. It contains laboratories, office space, a library, an auditorium and greenhouses.

BTI's move to Cornell has

enabled its scientists to work closely with those at the University on problems of mutual interest, particularly on problems that affect the world's supply of food and fiber. BTI's research is concentrated in five major areas: biological nitrogen fixation, biological control of insects, the effects of pollutants on agriculture and forestry, better ways to monitor and cope with plant stress and the development of bioregulant chemicals.

Dedication ceremonies will include remarks by Richard H. Wellman, managing director of BTI; W. Keith Kennedy, Cornell provost; Frank Rhodes, Cornell president; William T. Smith, chairman of the BTI board; Paul H. Silverman, provost for research and graduate studies at the State University of New York

and Robert Henshaw of the Office of Environmental Analysis in the State Department of Environmental Conservation.

The keynote address will be given by Anson R. Bertrand, director of the Science and Education Administration of the

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First Beam Stored; 'Collisions' Ahead For Storage Ring

The first circulating beam of electrons was stored in the University's new Electron Storage Ring on Friday, April 13, paving the way for high-energy physics research on the quark, the basic subnuclear building block of matter.

When fully operational this fall, CESR (pronounced Caesar) will enable stored beams of electrons and their anti-particles, positrons, to collide head-on at two points in their orbit.

Sophisticated detection systems will be used to study the interaction of these colliding beams and to identify the new forms of matter that emerge from the collisions.

Storage of the first electron beam is a major step toward obtaining usable "luminosity," that is, detectable collisions between the two beams, according to Boyce McDaniel, director of the Cornell Laboratory of Nuclear Studies, which operates the facility.

Beam storage was made possible by 18 months of frenzied activity during which about 140 members of the laboratory, including both academic and non-academic staff, participated in the design, construction and assembly of the apparatus.

The storage ring is mounted in the same tunnel, a half-mile in circumference and buried 50 feet

below Upper Alumni Field, that houses the Cornell electron synchrotron.

The synchrotron will provide the high energy electrons and positrons for injection into the storage ring. Billions of electrons and positrons will be contained in the circulating bunches, but they will interact so infrequently that the beams will circulate for many hours in the storage ring without loss of intensity.

The energies of the colliding particles will extend to 8 billion electron volts in each beam. A large computer is used to control hundreds of components required to guide the electrons and positrons in their orbits.

A large detector system called CLEO is being constructed in the main experimental hall to surround one of the points where the beams collide. A major feature of this detector is a 1,200-ton iron magnet excited by a superconducting electrical coil. The magnet extends more than 20 feet in each direction.

Thousands of sensitive elements in the detector identify each particle created by the collisions and determine its momentum and direction of motion. A computer connected to the detector elements analyses the data and can reconstruct a television display of the events precipitated by beam collisions.

By examining the products of electron-positron collisions in this way, physicists hope to learn more about the characteristics of quarks and their interaction with other matter.

CLEO is being built by physicists from Cornell, Harvard, Rochester, Rutgers, Syracuse and Vanderbilt Universities. About 70 physicists and graduate students from these institutions will participate in the experiments performed with this detector.

Experimental apparatus also is being mounted at the other collision point at the opposite side

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Margaret Seacord Elected New Employee Trustee

Margaret Seacord, administrative supervisor in the Center for Radiophysics and Space Research, was elected to the University's Board of Trustees for a two-year term in employee elections concluded last week.

Employees elected to two-year terms on the Campus Council were Kathleen F. McCracken, senior lab technician in chemistry and David Stotz, administrative director of the extension program of the New York State School of Industrial and Labor Relations.

Voter participation was down slightly from last year. Some 1,526 votes were cast for employee trustee out of a possible 5,879, a 25.6 percent participation as compared to 28.6 percent last year.

In the council elections, 1,476 votes were returned, a 25.1 percent turnout compared to 26.4 last year. Votes were counted based on the Hare system. Seacord received 847. McCracken, 717 and Stotz, 512.

Faculty Actions

The Faculty Council of Representatives has returned to committee a proposed resolution concerning the confidentiality of recommendation letters about faculty. Details of an extensive discussion of the issue at the FCR meeting April 11 are in the Bulletin of the Faculty on page 6 of today's Chronicle.

Other items discussed at the meeting and covered in detail on that page include a report on the results of a survey of faculty attitudes towards extending mandatory retirement from age 65 to 70 and of a poll of 1978 graduates concerning their satisfaction with Cornell.



The Language is Swahili

Kathy Tajou (left) and Irene T. Whalen work on the study of the Swahili language in a laboratory at the Africana Studies and Research Center. They are in a class of 20 students under instructor Abdul Nanji.

Council Is Scheduled For Today

The regularly scheduled meeting of the Campus Council last Thursday was postponed to today because it appeared a quorum would not be reached. Today's meeting will be at 4:45 p.m. in Room 701 Clark Hall. One of the items on the agenda is a motion to establish a committee to study defacement of University property.

Also, a resolution will be proposed calling for the University and other Ivy League schools to endorse the objectives, particularly in reference to athletics, of Title IX. It prohibits discrimination by sex in educational programs or activities which receive federal funds.

The resolution is in reaction to lobbying in Congress aimed at having athletics excluded from Title IX jurisdiction.

Boyce Thompson

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U.S. Department of Agriculture.
Tours of the new facility will

be offered from 2 to 5 p.m. The dedication ceremony and the tours are open to all interested persons.

BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH Fact Sheet

Founded by William Boyce Thompson in Yonkers, N.Y., to study plants because of their importance to the world's supply of food and fiber. The Yonkers facility was formally dedicated on Sept. 24, 1924. Move to Cornell was precipitated by urban congestion in the Yonkers area and by a feeling among BTI scientists that they could benefit from the intellectual stimulation of a university community. BTI scientists cooperate with Cornell scientists on projects of mutual interest. New building was financed with an \$8.5 million appropriation from the State Legislature, made on Aug. 3, 1973. The building was made available to BTI through an agreement signed by Cornell, BTI and New York State. Organization. The institute maintains its identity as a non-profit corporation with its own board of directors, managing director, staff and program. The affiliation agreement provides for four additional directors to be nominated by the president of Cornell and acceptable to the Institute's board. The managing director, elected by the BTI board, must have the approval of the Cornell president. Income for the Institute's programs comes from its endowment investments, sponsored research, grants and gifts from government, granting agencies, industry and private sources. Major Programs

1. *Nitrogen and crop yields.* Nitrogen fixation, particularly in paddy rice, is being explored by BTI scientists in cooperation with the International Rice Research Institute and Cornell. If scientists can find a means to increase the fixation of nitrogen in paddy rice, many millions more people around the world might be fed.

The Institute also has begun a five-year project with the International Institute of Tropical Agriculture in Nigeria involving nitrogen fixation in cowpeas (also called blackeye peas) which are a major food for millions of people in Africa, South America and Asia.

2. *Biological Pest Controls.* The need for inexpensive but effective methods of pest control is important in areas where farmers cannot afford chemical pesticides or where resistance to pesticides has developed. Institute scientists are looking particularly at insect-pathogenic viruses and entomophagous fungi which may play an important role in the microbial control of insects. They also are looking at natural chemicals, particularly pheromones, that can be used to modify pest behavior including the ability to reproduce.

3. *Plant Stress* is a major cause of low productivity on poor soils and in marginal climates, especially in developing countries. BTI scientists are examining selected cultivars or varieties of crop plants for morphological, physiological and biochemical characteristics which differentiate plants tolerant to stresses of cold, heat, disease and drought. The work is a first step toward developing plants that can tolerate adverse environmental conditions.

4. *Plant response to pollutants* is being studied to provide scientific information that can be used to broaden the basis for secondary air quality standards and to develop the methodology for efficiently evaluating the environmental consequences of pollutants. Air pollution problems are likely to grow with the proposed shift to coal as a source of energy and with the construction of electric generating and other industrial facilities in rural areas. BTI research focuses on plant growth and productivity and on the way pollutants affect the plants' susceptibility to disease and pest attack.

5. *Bioregulant Chemicals.* Because chemical pesticides probably will be necessary components of pest control systems for years to come, BTI scientists are working to develop new, safer and more effective fungicides, herbicides, and insecticides. Institute researchers are also experimenting with chemicals that may help regulate plant growth to improve agricultural productivity.

Engineers To Discuss Unionizing

The pros and cons of unionizing civil engineers, and other engineers, will be one of a number of topics discussed at a two-day conference on campus April 27 and 28.

Aimed at practicing engineers as well as engineering students and educators, the conference is sponsored by the Cornell Student Chapter of the American Society of Civil Engineers.

The opening event will be a panel discussion starting at 2 p.m. Friday, April 27 in Hollister Hall, on the general topic of "Civil Engineering in the 1980s." It will deal with structural innovation, unionization of engineers and computer applications.

On the panel, to be moderated by Cornell Engineering Dean Thomas Everhart, will be Lev Zetlin, designer of a number of innovative structures throughout New York State, including the City Auditorium in Utica and the Niagara Falls Convention Center; Robert Doherty, associate dean of the New York State School of Industrial and Labor Relations at Cornell and an experienced arbitrator and mediator in industrial disputes, and Gerard Fox, structural engineer for Howard, Needles, Tammen and Bergendoff in New York City and an authority on computer applications in engineering.

Saturday morning (April 28) will feature a presentation and discussion between 9 and 11 a.m. on the design of an offshore oil platform in the Gulf of Alaska. This session also will be in Hollister Hall and is open to the general public, as is the Friday afternoon panel discussion.

Russel C. Jones, dean of the College of Engineering at the University of Massachusetts will be the guest speaker at a luncheon Saturday in the Memorial Room of Willard Straight Hall.

Anthropologist Mary Douglas To Visit Here

Mary Douglas, director of research on culture at the Russell Sage Foundation and former professor of social anthropology at the University of London, will make two appearances on campus Wednesday and Thursday, April 25 and 26.

Called "one of the most stimulating, influential and distinguished anthropologists of our time" by Michael Kammen, director of Cornell's Society for the Humanities, Douglas will give a public lecture at 4:15 p.m. April 25 at the Hollis Cornell Auditorium of Goldwin Smith Hall, and a colloquium at 2:30 p.m. April 26 at the Andrew D. White House.

Her topic on April 25 will be "A Cross-Cultural Perspective on Food." The April 26 colloquium will be on "Evans-Pritchard and the Sociology of Knowledge."

Governor Notes Cornell Program

In his proclamation declaring April 1979 as the "Month of the Working Woman," Gov. Hugh L. Carey made specific reference to a Cornell program.

He noted that women make up 41 percent of the work force in the state and said, "The Institute for Education and Research on Women and Work of Cornell University and the National Commission on Working Women are sponsoring a Regional Dialogue for Working Women on April 21 in Albany."

Job Opportunities

The following are regular continuing full-time positions unless otherwise specified. Please do not inquire at individual departments. An equal opportunity employer. Individuals on lay-off status will be given preference in referrals.

(*) indicates new this week.

CLERICAL POSITIONS

* Lib. Asst. V, A-19 (Univ. Libraries, Olin)
Admin. Aide, A-18 (V.P., Facilities & Bus. Ops.)
* Chief Acct. Clerk, A-17 (Materials Science Ctr.)
Sr. Admin. Secy., A-17 (Public Safety)
* Sr. Admin. Secy., A-17 (Public Affairs-Education)
Chief Acct. Clerk, A-17 (P.E. & Athletics)
Chief Acct. Clerk, A-17 (Mat'l Science & Engineer.)
Library Asst. IV, A-17 (Univ. Libraries, Law)
* Admin. Clerk, A-16 (Graphic Arts Services)
* Head Acct. Clerk, A-15 (Accounting - Endowed)
Admin. Secy., A-15 (P.E. & Athletics)
* Sr. Data Clerk, A-15 (Dean's Office, A&S)
Sr. Data Clerk, A-15 (Graduate School)
Admin. Secy., A-15 (Univ. Relations, Visual Svcs.)
Admin. Secy., A-15 (Public Safety)
Corr. Secy., A-15 (Business & Public Admin.)
Admin. Secy., A-15 (University Press)
Searcher II, A-15 (U. Libraries, Olin)
Admin. Secy., A-15 (Applied & Engineering Physics)
Admin. Secy., A-15 (LASSP)
* Principal Clerk, A-14 (Accounting - Endowed)
* Principal Clerk, A-14 (Career Center)
* Principal Clerk, A-14 (Bldgs. & Grounds Care)
Principal Clerk, A-14 (Design & Project Mgmt., night shift)
Principal Clerk, A-14 (Univ. Health Services)
Principal Clerk, A-14 (Dining Services)
* Dept. Secy., A-13 (Arts & Sciences Admissions)
* Dept. Secy., A-13 (P.E. & Athletics)
Sr. Clerk, A-13 (U. Libraries, Olin)
Dept. Secy., A-13 (Hotel Administration)
Sr. Key punch Op., A-13 (Computer Svcs., shift work)
Data Clerk, A-13 (Admissions)
Dept. Secy., A-13 (University Press)
* Library Asst. II, A-12 (U. Libraries, Olin)
Sr. Clerk, A-12 (Univ. Health Services)
Admin. Aide, NP-11 (NYSSILR - NYC)
* Secretary-Steno, NP-10 (HD & FS, NYC)
Steno III, NP-9 (Physical Biology, Sect. of Physiology)
Bookkeeper, NP-9 (Agricultural Engineering)
Steno III, NP-9 (Education, 9-79, probable cont.)
Clerk III, NP-7 (Sect. of Ecology & Systematics)
Clerk III, NP-7 (NYSSILR)
* Steno II, NP-6 (Agricultural Engineering)
Steno II, NP-6 (NYSSILR)
Steno II, NP-6 (NYSSILR)
Steno II, NP-6 (Nutritional Sciences)
Steno II, NP-6 (Agricultural Economics)
Steno II, NP-6 (Vet Physiology, Biochem. & Pharm.)
Steno I, NP-5 (Hum. Dev. & Fam. Studies)

SERVICE & MAINTENANCE POSITIONS

Controls Mechanic Apprentice (Maint. & Svc. Ops.)
Controls Mechanic (Maint. & Svc. Ops., Union)
Plant Spvr. I, A-22 (Chilled Water Plant Tech.) (Utilities)
* Food Concessions Mgr., A-15 (Cornell United Rel. Works)
Bldg. Guard, A-15 (Johnson Museum)(4)
Principal Clerk, A-14 (Tavern Mgr.)(U. Unions, NCU)
Short Order Cook I, A-14 (Dining Services)
Custodian, A-13 (Bldgs. & Grounds Care)
Heating Plant Worker, NP-8 (Bldgs. & Prop., Geneva-2)
* Field Asst. II, NP-7 (Agronomy, Mt. Pleasant Farm)
Field Asst. II, NP-7 (Agronomy, Chazy, NY)

TECHNICAL POSITIONS

Programmer II, A-21 (Ctr. Radiophysics & Space Res.)
Computer Operator II, A-19 (Computer Services)
Sr. Life Safety Tech., A-18 (Radiation Safety, LSS)
* Lab Tech. II, NP-11 (DCS - Clinical Pathology)
* Lab Tech. II, NP-11 (Vet Micro., Baker Institute)
Lab Tech. II, NP-11 (Vet Micro., Baker Institute)
Lab Tech. II, NP-11 (Botany, Genetics & Develop.)
Lab Tech. II, NP-11 (Nutritional Sciences)
Experimentalist I, NP-11 (Vet Physical Biology)
* Res. Tech. II, NP-10 (Physical Biology)
Res. Tech. II, NP-10 (Pomology)
Res. Tech. II, NP-10 (Plant Pathology)
Res. Tech. I, NP-8 (Plant Pathology)
Lab Tech. I, NP-8 (Equine Drug Test., Saratoga)
Lab Tech. I, NP-8 (Equine Drug Test., Monticello)
Sr. Arch. Engr. II, CPO7 (Design & Project Mgmt.)
Sr. Computer Staff Spec., CPO6 (Computer Svcs.)
Sr. Res. Supp. Spec., CPO6 (Elec. Engineering)
Comp. Tech. Admin. III, CPO6 (Computer Services)
Comp. Tech. Admin. III, CPO6 (Computer Services)
Sr. Comp. Staff Spec., CPO6 (Computer Services)
Life Safety Svc. Mgr., CPO5 (Life Safety & Ins.)
Res. Supp. Spec. III, CPO5 (Elect. Engineering)
Elect. Engineer II, CPO5 (Design & Project Mgmt.)
Res. Supp. Spec. II, CPO4 (Computer Graphics)
Applications Programmer II, CPO4 (Computer Svcs.)
Res. Supp. Spec. II, CPO4 (Mat'l Science Center)
Res. Supp. Spec. II, CPO4 (Entomology, Highland)
Appl. Programmer II, CPO4 (Chemical Engineering)
Appl. Programmer II, CPO4 (Computer Services)
Appl. Programmer II, CPO4 (Animal Science)
Appl. Programmer II, CPO4 (Computer Graphics)
Comp. Tech. Admin. I, CPO4 (Computer Services)
* Teaching Support Spec. II, CPO3 (Chemistry, 10 mos.yr.)
Design Engineer I, CPO3 (Agric. Engineering)
Res. Supp. Spec. I, CPO3 (Entomology, Geneva)
Res. Supp. Spec. I, CPO3 (Nat'l Resources, New Paltz)
Appl. Programmer I, CPO3 (Computer Svcs.)(2)
Res. Supp. Aide, CPO2 (Chemistry)

ADMINISTRATIVE-PROFESSIONAL POSITIONS

Senior Investment Officer (Investment Office)
Attending Physician (University Health Services)
Editor (University Press)
SDS V, CPO8 (Assoc. Dean)(Graduate School)
* Asst. Director OCS, CPO7 (Office of Computer Svcs.)
Field Veterinarian, CPO7 (DCS-Mastitis Control, Springville)
SDS IV, CPO6 (Human Ecology, Dean's Office)

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Beam Stored

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of the tunnel by researchers from Columbia University and the State University of New York at Stony Brook. Some 16 physicists and graduate students from these institutions currently are assembling apparatus in preparation for experiments.

In addition to the high energy particle interactions that take place where the beams collide, the circulating beams of electrons and positrons continuously emit "synchrotron radiation," which serves as an intense x-ray source. Special facilities are being provided for scientists from various fields to utilize this source of radiation. A management group based in the School of Applied and Engineering Physics and the Department of Physics will administer use of the facility, known as the Cornell High Energy Synchrotron Source (CHESS).

Conversion of the Cornell synchrotron to a colliding beam facility was funded in September 1977 by the National Science Foundation at an estimated cost of \$20.7 million.

Brief Reports

'Voltaire and East Asia' Is Topic

"Voltaire and East Asia" will be the subject of a colloquium at 4 p.m. today at the Andrew D. White House.

The speaker will be Allan Grapard, assistant professor of Asian religions in the Department of Asian Studies at Cornell. His talk is the ninth in a 10-part, year-long series on "Cultural Impact: East Meets West" series sponsored by the Society for the Humanities.

Grapard, who taught at the University of Colorado and sever-

al Japanese universities before coming to Cornell in 1978, has as his major research interests Japanese religion, Shinto-Buddhist syncretism and the arts in Asian religions. He has published a number of papers on various aspects of Japanese religion, particularly the origins of Heian Buddhism.

Grapard is now writing a biography of Kukai, a medieval figure "who crossed the mountains and streams in search of awakening."

Crew Highlights Weekend Sports

Seven men's events make up the home sports schedule for Cornell's athletic teams this weekend, with crew regattas highlighted.

The lightweight oarsmen will open their home season on Saturday when they host Rutgers and Princeton in the annual Platt Cup Regatta. Starting time is 1:30 p.m. on the flood control channel. On Sunday the men's heavyweight crew will be in action twice, rowing against Rutgers at 10 a.m. and then against Yale at 2 p.m. All three rowing events will include freshman, junior varsity and varsity competition.

The weekend action starts today when the junior varsity

baseball team entertains the Cortland junior varsity on Hoy Field starting at 4 p.m. It continues on Friday when the varsity "B" lacrosse team meets Suffolk Community College on Schoellkopf Field, also at 4 p.m.

The men's varsity lacrosse team faces a major Ivy League battle at noon Saturday on Schoellkopf when it meets Pennsylvania. This will be followed by the track team's lone home appearance of the season when the Big Red meets Pennsylvania also on Schoellkopf, starting at 4 p.m. Both teams are among the best in the east, and traditionally have had some superb dual meet confrontations.



Lacrosse Team Loses First

Cornell's previously unbeaten lacrosse squad absorbed its first loss of the season Saturday at Schoellkopf to the nation's top-ranked Johns Hopkins Bluejays. Freshman attackman Wade Bollinger (15) is pursued by Hopkins midfielder Bob Teasdale as Cornell's senior attackman Ned Gerber comes up behind them.

Race Relations in Education Topic of 'Straight' Anniversary

Four speakers will bring different perspectives to a discussion of race relations in higher education over the last decade in a program at 7:30 p.m. today in the Memorial Room of Willard Straight Hall.

"The 1969 Willard Straight Hall Takeover: Race Relations in Higher Education, Then and Now" is the topic of the program co-sponsored by Cornell's Office of Minority Educational Affairs and the Willard Straight Hall Board.

It is scheduled on the 10th anniversary of the 1969 takeover by black students of the University union building, which was the culmination of several months of unrest on campus over a number of issues concerning minority education and the relationship of blacks to the University.

Charles Martin, professor of education at Howard University and editor of the Journal of Negro Education, will be the keynote speaker. He is a 1978-79 White House Fellow.

Other speakers are Andre McLaughlin, assistant professor of education and chairperson of the Division of Special Programs at Medgar Evers College of the City University of New York; Robert D. Miller, professor of agronomy at Cornell, and William E. Cross Jr., assistant professor

in Cornell's Africana Studies and Research Center. Darwin P. Williams, director of minority educational affairs at Cornell, will be the moderator.

McLaughlin, a 1970 Cornell graduate, was a participant in the 1969 takeover. Miller was dean of the Cornell faculty at the time. Cross will comment on the development of the Africana Center, and "the Negro to Black conversion experience."

Martin, the keynoter, spoke at a Cornell symposium in 1974 on race and intelligence. He was active in the Student Non-Violent Coordinating Committee (SNCC) and the student movement of the 1960s.

As a White House Fellow, Martin is a member of the White House's Inter-Government Committee on Historically Black Institutions and of the State Department's Inter-Government Committee on Refugees. He is involved in developing a policy concerning Indo-Chinese and southern African refugees.

After graduating from Cornell, McLaughlin went on to earn her master's and Ph.D. Degree at the University of Massachusetts. She has been on the faculty at Medgar Evers since 1974, and is director of the Parent Early Childhood Program in New York City.

Sagan to Discuss Voyager I

Carl Sagan, the David Duncan Professor of Astronomy and Space Sciences and director of the Laboratory for Planetary Studies, will speak on "Voyager I Exploration of Jupiter" at 8 p.m. Saturday, in Bailey Hall.

His free public lecture is sponsored by Cornell's Department of Astronomy.

While on leave from Cornell this year, Sagan is serving as a member of the Imaging Science Team for the National Aeronautics and Space Administration's Voyager Mis-

sion to the outer solar system.

Voyager I, which flew near Jupiter in early March, provided spectacular color photographs of the solar system's largest planet and also discovered active volcanoes on Io, one of Jupiter's moons. Sagan will illustrate his talk with pictures taken during the Jupiter fly-by.

Sagan currently is working on a 13-part television series for the Public Broadcasting System entitled "Cosmos," which will deal with astronomy in its broadest human context.

Symposium Part of Dedication

A symposium, "Linking Basic Research to Crop Improvement in Less Developed Countries," will be held in conjunction with the dedication of the Boyce Thompson Institute's new building beginning at 1 p.m. Wednesday, April 25, and continuing from 8:30 a.m. to 5 p.m. Thursday, April 26, in the BTI auditorium.

Speakers from the New York State College of Agriculture and Life Sciences and from other agricultural institutions will par-

ticipate in discussions of such topics as biological nitrogen fixation, crop improvement and the biological control of insects.

Elosie Clark of the National Science Foundation will be the keynote speaker at the symposium banquet on April 25.

The symposium is open to the public, but advanced reservations are needed for the banquet. For more information and to make banquet reservations, contact Richard C. Staples at BTI. The phone number is 257-2030.

Computer Expert to Talk

Alfred Bork, professor of physics and information and computer science at the University of California at Irvine and an expert in the field of computer-aided instruction, will present seminars and demonstrations for the Cornell community on Monday and Tuesday, April 23 and 24.

Bork will speak on "Learning via Computer" at 4:30 p.m. Monday in 700 Clark Hall as part of the Department of Physics Colloquia Series.

He will demonstrate selected computer-assisted dialogs using graphics, currently used at UC Irvine, from 10:30 a.m. to 3:30 p.m. Tuesday in 702 Clark. The demonstration is aimed particularly at faculty and students.

He will speak on the more technical aspects of developing computer-based learning materials at 3:30 p.m. Tuesday in 702 Clark as part of the Computer Services Mini-Micro Seminar Series.

The Greek View of Romans

A Roman history scholar who has recently turned his attention to ancient Greece will deliver a lecture, "Roman Imperialism: the Greek View," at 4:30 p.m. Monday, April 23, in the Hollis Cornell Auditorium of Goldwin Smith Hall at Cornell University.

The lecture by Erich S. Gruen, professor of history at the Uni-

versity of California at Berkeley, will be sponsored by the Committee on University Lectures and the Society for the Humanities.

Most of Gruen's work has dealt with politics and society in the late Roman Republic, although he has written on Greek topics also.

Roger Geer

Memorial services will be conducted for Roger L. Geer, professor of mechanical engineering emeritus, at 2:30 p.m. Sunday, April 22, at Forest Home Chapel. Geer, 72, died Wednesday, April 11, at Tompkins County Hospital. A 1930 graduate of Cornell, he joined the University faculty in 1939 and was named emeritus in 1971. He received the 1971 Education Award of the International Society of Manufacturing Engineers for his contributions to "the cause of engineering education and the ultimate realization of manufacturing engineering as an academic discipline and as an industrial imperative."

He is survived by his wife, Ruth Rawley Geer of 190 Pleasant Grove Road, Cayuga Heights, two sisters and several nieces and nephews.

Mark Sherman

The body of Mark S. Sherman, Arts '81, was discovered near the railroad bridge in Fall Creek Thursday, April 12. He was missing since March 11. Sherman's death was declared a suicide by Tompkins County Medical Examiner, Manuel Posso. Sherman, who was from Lyndhurst, Ohio, left a long suicide note, Ithaca police said.

Festival for Women Scheduled April 29

A spring festival, open to all but primarily by and for women of all ages in the Ithaca area, will be held from 11 a.m. to 10 p.m. Sunday, April 29, in the Memorial Room of Willard Straight Hall.

Women's karate demonstration, Appalachian clogging to live fiddle music, belly dancing and music by local performers will be interspersed with serious discussions of topics of concern to Ithaca women.

Presentations about the Ithaca Women's Center, homosexual life, minority women, Title IX and Title VII and Women's Studies, followed by question and answer sessions, are scheduled from 2 to 3 p.m.

A discussion of violence against women, including rape, battered women, abortion and sterilization, is scheduled from 4 to 5 p.m.

A coffee hour from 5 to 6 p.m. with live music by KJ and the Fall Creek Band will be followed by readings by local poets Carolyn Whitlow and Beverly Tannenhause and a play reading by Yvonne Fisher.

Parts of the play "Workers" will be performed at 8 p.m., followed by the Africana Players production of "For Colored Girls Who Have Considered Suicide."

At 10 p.m. the festival will move to the Common Ground on State Street for a dance featuring music by Boltwood Rose.

Persons wishing to perform, speak, show their work or organize an exhibit should contact the organizers at 277-0516, days, or 273-3057 or 256-5755 evenings.

An International Play Place

Language Barrier Presents No Problem for Coop Nursery

"I can get up by myself, Mother," said a 2-year-old as she started to climb a ladder to a loft in the Cornell Cooperative Nursery School. And she did.

Katarina Karlsson, the little ladder-climber, is well on her way to being ready for nursery school specifically the one located in the North Campus Union. It's open to pre-school children (ages 3-5) of Cornell faculty, staff and students. Some 36 youngsters are enrolled and more are desired.

"At the present time we only have morning sessions," said Anne Heathcote, one of the teachers. "We have three options available—five, three and two days a week. If we had a greater demand, we would like to go to afternoon sessions as well."

The nursery school has two full time teachers—Nancy Hunter, who is a certified nursery school teacher earning her master's degree at the State University of New York at Cortland, and Heathcote, who earned her certification in the schools of England.

Two teachers might not sound like a lot but there is help available from the parents of the children.

"When our children enter the nursery school we are committed to working one day a month to help the teachers," said Linnea Karlsson, Katarina's mother, who did some looking around before she enrolled her son, Boitumelo, in the nursery school.

My husband and I looked at many of the nursery schools around the area and felt that this was the best," she said. "We liked the way the teachers handle the children. They are very imaginative and have a lot of patience with them. Much more than I would have."

Adults are not the only helpers at the nursery school.

Rika Ito, 4, was sitting at a table with a group of children planting grass seed in an egg carton. "I like Play-Doh best," she said. Rika moved from group to group playing with different toys and joining in games.

When Mayumi Kitagawa, 3, arrived, Rika became very excited. She ran into the hall to greet Mayumi, took her hand and



A Tough Climb

Katarina Karlsson (bottom) and Sally Randel (top) get a workout on the nursery's play loft.

led her into the playroom. She helped her off with her coat and hung it up.

Rika again took her by the hand and led her to the group of children she had been playing with. Speaking to each other in Japanese, they giggled and started pushing wooden trucks around the floor.

"Mayumi doesn't speak English," Heathcote explained. "Rika has, through her own initiative, taken over the responsibility for Mayumi and also translates for us."

"Many of the children do not speak English when they come

to us," she continued, "but through sign language, pointing and the help of the bilingual children, we all seem to communicate quite well. By the time the non-English speaking children leave us, they can speak English."

Dutch, Chinese and Japanese are some of the languages heard in the playroom. "That's the unique thing about this nursery school," said Anita Lipton, mother of Jason, 4. "The children all get along with each other, even though there are so many languages spoken."

—Barbara Jordan



Child Art

Teacher Nancy Hunter (far right) shows Mayumi Kitagawa (left), Rika Ito (center) and Yasu Makano (right) how to color a carrot.

'Executive' Says Execs are Healthier

Executives, as a group, are healthier and live longer than most other workers, according to a series of articles appearing in the March issue of the magazine "Executive."

Edward Lewis, editor of the magazine published by the Graduate School of Business and Public Administration, made this conclusion based on 12 articles written by sociologists, psychologists, and medical researchers, all discussing health care for executives.

According to Lewis, mortality rates for executives—and for that matter, college-educated people—are not as high for cerebrovascular disease, tuber-

culosis, influenza and pneumonia, cirrhosis, and suicide as in lower socioeconomic groups.

"The pattern holds," Lewis writes, "for major diseases. Executives are, for instance, less prone to coronary diseases than either workers or those below them in the managerial hierarchy. Even in the case of cancer, the death rate falls approximately 20 percent below the level for the general population."

Since there is, in addition, a correlation between job satisfaction and mental health, executives (particularly the successful ones) tend to experience less stress and, as a result, fewer psychiatric illness, Lewis said.

Job Opportunities

Continued from Page 2

Develop. Officer III, CPO7 (University Development)
Sr. Administrator I, CPO7 (Media Services)
Develop. Officer II, CPO6 (University Development)
Develop. Officer II, CPO6 (University Development)
Assoc. Administrator, CPO6 (Media Services)
* Student Dev. Spec. III, CPO5 (Dean of Students)
Admin. Manager II, CPO5 (Utilities)
SDS IV, CPO5 (Assoc. Director of Admissions, Reg. Coord.)(Admissions)
Manager, CPO5 (Statler Inn)
SDS III, CPO5 (Dir. of Placement)(Human Ecology)
Residence Admin. IV, CPO5 (Residence Hall)
Dining Mgr. II, CPO5 (Dining Services)
Res. Supp. Spec. III, CPO5 (HD & FS, Syracuse)
Res. Admin. III, CPO4 (Residence Life)(2)
Exec. Staff Asst. II, CPO4 (Equal Oppor. Specialist) (Office of Equal Opportunity)

Space Coordinator, CPO4 (Design & Project Mgmt.)
Residence Admin. II, CPO3 (Residence Life)
Student Dev. Spec. I, CPO3 (COSEP, State Programs)
Residence Admin. I, CPO2 (Residence Life)
Dining Spvr., CPO2 (Food Science)
Program Aide, NP-9 (HD & FS, Syracuse)

PART-TIME AND-OR TEMPORARY POSITIONS

*Temp. Svc. Clerical (NYSSILR, 3 mos. fulltime)
Temp. Svc. Clerical (NYSSILR, temp. pt)
Temp. Svc. Clerical (Sect. of Physiology, Physical Biology, temp. ft)
Dept. Secy., A-13 (Univ. Press, perm. halftime)
Dept. Secy., A-13 (Biological Sciences, perm. pt)
*Sr. Clerk, A-12 (Graphic Arts Services, perm. 8-12:00)
Steno III, NP-9 (Coop. Extension, NYC, temp. ft)
Admin. Secy., NP-8 (Nutritional Sciences, temp.ft)
Admin. Secy., NP-8 (Comm. Svc. Educ., temp. ft)
Steno II, NP-6 (Preventative Med., perm. 10-12:00)
Steno II, NP-6 (Rural Sociology, temp.ft, prob.ext.)
Steno I, NP-5 (Entomology, 1 year, pt)
Temp. Svc. Labor (Seed & Veg. Sciences, G.,temp.ft) (20)
Temp. Svc. Labor (Pomology & Viti., Geneva, temp.ft-2)
Temp. Svc. Labor (Farm Services, temp. ft)
Temp. Svc. Labor (Plant Pathology, Geneva, temp.ft)
Temp. Svc. Labor (Seed & Veg. Sciences, G., temp.ft)
Temp. Svc. Labor (Pomology & Viti., Geneva, temp.ft)
Temp. Svc. Labor (Entomology, Geneva, temp.ft)(2)
Temp. Svc. Labor (Entomology, Geneva, temp.ft)(28)
Temp. Svc. Svc. (Campus Store, casual)
Res. Tech. I, NP-8 (Nat'l Resources, Albany, temp.ft)
Lab Tech. I, NP-8 (Seed & Veg. Sciences, Geneva, temp., dependent on funds)

*Temp. Svc. Tech. (Lab of Nuclear Studies, temp. ft, 5)
Temp. Svc. Tech. (Biological Sciences, perm. pt)
Systems Programmer III, CPO5 (Computer Svcs., 1 yr.)
Systems Programmer II, CPO4 (Computer Svcs., 1 year)
Regional Director, CPO4 (U. Develop., Cleveland, pt)
Syst. Programmer I, CPO3 (Computer Svcs., 1 year)
*Temp. Svc. Paper Grader (Comm. Arts, temp. pt)

ACADEMIC-FACULTY POSITIONS (Contact Department Chairperson)

* Extension Assoc. I, CPO3 (NYSSILR, Buffalo)
* Postdoc. Associate (Theoretical & Applied Mech.)(2)
* Instructor, Mathematics (Learning Skills-COSEP, 6 wks.)
* Instructor, Chemistry (Learning Skills-COSEP, 6 wks.)
* Instructor, Study Skills (Learning Skills-COSEP, 6 wks.)
* Instructor, Social Science (Learning Skills-COSEP, 6 weeks)
* Research Associate (Learning Skills, COSEP, 6 wks.)
* Assoc.-Asst. Professor (Comm. Svc. Education)
* Professor & Chair (Design & Env. Analysis)
* Asst. Librarian (U. Libraries, Reference, Olin)
* Asst. Librarian (Rare Books, Olin)
* Asst. Librarian (Russian Studies Librarian)
* Sr. Asst. Librarian (History of Science, Olin)
* sst. Prof.,Voice-Speech (Theater Arts)
* Research Assoc. I, CPO3 (CRSR)
Librarian, CPO7 (Albert R. Mann Library)
Sr. Res. Assoc., CPO7 (Lab of Nuclear Studies)
Research Assoc. III, CPO5 (NYSSILR, NYC)
Res. Assoc. II, CPO4 (Agricultural Engineering)
Res. Assoc. II, CPO4 (Electrical Engineering)
Lecturer (Human Services Studies)
Extension Assoc. IV, CPO6 (NYSSILR)
Extension Assoc. III, CPO5 (NYSSILR-NYC, 2)
Research Assoc. IV, CPO6 (Education)



Contemporary Music Featured in Festival

The spring segment of the 11th Festival of Contemporary Music will take place in Barnes Hall this Friday through Sunday, with all events free and open to the public.

American composer Elie Siegmeister will discuss his own music and current directions in new music at 8:15 p.m. Friday. A question-and-answer period will follow the presentation.

At 8:15 p.m. Saturday, Alan Mandel, Siegmeister's son-in-law, will perform piano works of Siegmeister, Charles Ives and Cornell composer Robert Palmer, the Given Foundation Professor of Music.

The third event, at 4 p.m.

Sunday, will feature the works of five Cornell graduate student composers.

Siegmeister's compositions, which cover more than 40 years, reflect the social history of American music. Born in Harlem in 1909, he studied theory with Wallingform Riegger, and, like many of his contemporaries, studied composition in Paris with Mlle. Nadia Boulanger.

During the 1930s and 1940s he worked in the theater and taught in colleges. From the 1950s through the mid-1970s he conducted various orchestras and choruses, lectured in the United States and abroad and served as vice president of the American Music Center.

Siegmeister was a professor and composer-in-residence at Hofstra University.

In his Saturday evening recital, Mandel will play two Siegmeister works: Theme and Variations No. 2 and American Sonata (1967). He will also play Five Takeoffs and Six (unpublished) Studies, both by Ives, and Epigrams I-VII by Palmer.

Mandel gave his first concert at age 13 in Town Hall in his native New York. A former Fulbright scholar in Salzburg, he has studied piano with Rosina Lhevinne and Leonard Shure and composition with Hans Werner Henze. He is a professor of music at The American University in Washington, D.C.

The new music from Cornell to be heard Sunday afternoon will be "A Song for Morning" by Mark Taggart for voice and instruments, Sonata for Clarinet and Piano by Stephen May, Trio for Flute, Oboe and Bassoon by John Hilliard, Tenebrae Factae Sunt by Duane Heller for the University Glee Club and woodwind quintet, Sonatinissima for Piano and Unmusical Instrument also by May and Schizophrenia, a multi-media work by Garth Drozin.

Two Films On Japan Scheduled

The second and third parts of a film trilogy on contemporary Japan will be shown Thursday and Friday, April 26 and 27.

"Blind Swordsman" will be shown at 8 p.m. Thursday at the Hollis Cornell Auditorium of Goldwin Smith Hall. "Farm Song" will be shown at 4 p.m. Friday at the Uris Hall Auditorium. Each film is a one-hour documentary.

John Nathan, director of the trilogy "The Japanese" scheduled for broadcast nationally on the Public Broadcasting System later this year, will be at Cornell to lecture on and discuss his films after each showing.

"Full Moon Lunch," the first film in Nathan's trilogy, is not being shown here.

Nathan's appearance at Cornell and the film showings are co-sponsored by the China-Japan Program and the Council of the Creative and Performing Arts.

Street Music, Sitar Concerts Slated

Two concerts of music from India will be presented at the University this week.

At 7 p.m. Sunday in Kaufmann Auditorium, Pandit Uma Shankar Mishra will give a sitar concert. Admission for the concert is \$1 at the door.

Misra has toured extensively in Europe and the United States. Misra's concert is being sponsored by the Cornell India Association, the International Activities Group, South Asia Program and Asian Studies Program.

Purna Chandra Baul will perform at 8:15 p.m., Wednesday, April 25, in Kaufmann Auditorium. The concert is free and open to the public.

Baul will perform Indian street music, which he began to play when he was a child in his native village of Birbhum.

Among the instruments to be played at the concert are the khamak and a four-stringed dotara.

The concert is being sponsored by the Cornell India Association and the South Asia Program with a South Asia dance and drama grant.

Russian Sculptor to Give Informal Talk

Russian sculptor Ernst Neizvestny, will give an informal talk in Russian, with an interpreter, at 4:30 p.m. Monday, April 23, in 112 Ives Hall.

Neizvestny was born in Sverdlovsk in 1926. He became

widely known abroad only after Nikita Khrushchev violently criticized him at a 1962 art show in the Moscow Manezh. Khrushchev and Neizvestny later became friends, and he was commissioned by Khrushchev's

widow, Nina, to design the monument for Khrushchev's tomb.

Neizvestny's talk is being sponsored by the Cornell Council for the Creative and Performing Arts and the Committee on Soviet Studies at Cornell.

Shoals Marine Lab Will Offer Special Ornithology Programs

Three special programs in ornithology, geared to satisfy the curiosity of the lifelong birdwatcher and to whet the appetite of the neophyte, are scheduled during spring and fall migrations this year at the Shoals Marine Laboratory.

The Shoals Lab, a seasonal field station run cooperatively by Cornell and the University of New Hampshire, is located on Appledore Island, one of a group of nine islands in the southwestern Gulf of Maine known as the Isles of Shoals.

The programs will be led by Douglas Lancaster, director of

the Cornell University Laboratory of Ornithology, and Arthur Borror, professor of zoology at the University of New Hampshire, who has studied the birds of Appledore for years.

More than 125 species of birds are now included on the checklist for Appledore Island. The second most important heron rookery in Maine is located on Appledore, and part of the island has been declared a critical natural area by the state. Black-crowned night herons, glossy ibis and snowy egrets nest on Appledore; the island also is the northernmost nesting site

known for the little blue heron.

Several thousand pairs of herring and black-backed gulls nest on Appledore each summer, providing opportunities for observing and photographing their behavior in detail.

On neighboring islands, which can be visited by boat, eiders and black guillemots nest, and harbor seals, who come to the area to raise their young, are common sights.

"The Isles of Shoals lie in the midst of a major commercial fishing area and support a rich and diverse terrestrial and intertidal biota. These features,

coupled with the remoteness from the mainland, make the Isles an ideal place to get away from it all while having a chance to learn from the experts," according to John M. Kingsbury, SML director.

SML programs, open to all reasonably agile persons over 12, consist of field trips, formal and informal lectures, discussions and films, organized according to the dictates of the tide, weather and the kitchen (which, Kingsbury said, is noted for its hearty fare and fresh seafood.)

Programs are scheduled from

May 24 through May 27, May 27 through 30 and August 27 through 29. Each program runs from approximately noon on the first day until noon on the last day. Cost of the first two programs is \$120; cost of the third program is \$80.

For more information or to make reservations, write SML, G-14 Stimson Hall, Cornell University, Ithaca, N.Y. 14853. Early registration is encouraged since enrollment in each program is limited.

Cornell Chronicle
April 19, 1979



Dancers Who Sing and Play

Spinning is one element of the choreography composed by Laura Dean for the performance of the Laura Dean Dancers and Musicians scheduled for April 28 in Helen Newman Hall. Dancers in the company are also singers and musicians and Dean has designed the company's repertoire to make use of their multiple talents.

Laura Dean Dancers Will Perform

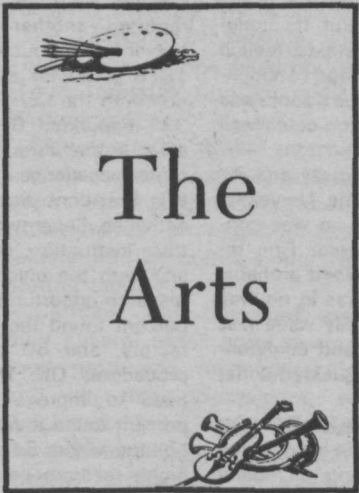
The Laura Dean Dancers and Musicians will perform at 8:15 p.m. Saturday, April 28, at Cornell University's Helen Newman Hall.

Dean has been working with spinning, steady pulse, repetitive movement and geometric pat-

terns since 1968. A composer as well as choreographer, she has been writing music and singing since 1970. Her company is made up of dancers who are also singers and musicians and its repertoire is designed and composed to incorporate this concept.

Dean's performance is being sponsored by the Cornell Dance Series and the New York State Council on the Arts.

Tickets at \$2.50 each for students and senior citizens and \$3.50 for others, are on sale at the Cornell Dance Office, Nippenose and at the door.



Annual Festival to Present Best of Independent Video

The fifth annual Ithaca Video Festival will be held at the Herbert F. Johnson Museum of Art Tuesday through Sunday, April 24-29.

The festival is a touring exhibition presenting a selection of the finest independent video being produced in the United States. It will tour the country from May through January, 1980.

Selections for this year's festival, which includes 20 tapes,

was made from 223 entries by a panel of four judges.

The festival is supported by Ithaca Video Projects, an independent non-profit media production center, the New York State Council on the Arts and the National Endowment for the Arts.

Museum hours are Tuesday through Saturday, 10 a.m. to 5 p.m., Sunday 11 a.m. to 5 p.m., Wednesday evenings open until 9.

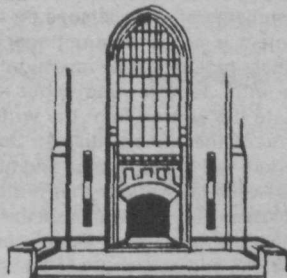
Acting, Action in Hamlet Topic of Goldman Lecture

Michael Goldman, poet, playwright and critic will give a lecture at 4 p.m. Friday, April 20 in Kaufmann Auditorium of Goldwin Smith Hall. His topic will be "Acting and Action in Hamlet." His lecture is to be given as part of the Cornell Theatre's Hamlet Festival.

Goldman, who teaches Shakespeare in the English Department at Princeton University, is the author of "The Actor's Freedom: Toward a Theory of Drama," which won the George Jean Nathan prize for dramatic criticism in 1976, and "Shakespeare and the Energies

of Drama," which was nominated for a National Book Award.

Goldman has served as poetry editor for The Nation from 1965 to 1968 and has written plays, two of which have been performed off-off Broadway in New York.



Bulletin of the Faculty

April 11
Ives 110

The speaker, Professor Russell Martin, called the meeting to order, a healthy quorum being in attendance. He first called for approval of the minutes of the last meeting. Professor Galenson wished to insert what he thought was a crucial sentence omitted by the secretary in his reporting of the provost's remarks on mandatory retirement at that meeting. This had to do with the fact that it would be the exception now that one did not get retirement postponed beyond the age of 65, rather than the other way around, as has been the case heretofore. The inclusion of the sentence was approved and the amended minutes accepted.

Professor Street moved a change in the agenda: to move the item on confidentiality of information in promotions up to the front after approval of the slate of candidates for Faculty Trustees, Secretary and membership of various committees. This was approved; confidentiality was apparently a hotter subject than had been supposed.

The speaker recognized the dean for the presentation of the candidates slate. The dean announced that Professor Turner had backed off his acceptance of candidacy for trustee; that unless a nomination came from the floor, Professor Bugliari would be the next secretary, there being only his name in the race for the position. The only nomination from the floor was the name of Professor Blumen for faculty trustee. So he replaces Turner on the slate and Professor Bugliari becomes the next secretary. The job is something of a chore; the retiring secretary commends him for his willingness to run and wishes him well.

Following this, Professor Quaas, for the Committee on Academic Freedom and Responsibility, presented a resolution on confidentiality of letters, to wit:

WHEREAS, state and federal agencies investigating faculty appointments and promotions may seek to examine or take possession of letters of evaluation written with the assurance that they would be held in confidence, and have already requested such letters in at least one case, and

WHEREAS, the abrogation of confidentiality in letters of reference would destroy the chief source of objective evaluation now used in judging whether or not to appoint candidates to faculty positions or promote them to tenure and to full professorships—all of which steps are very costly and long-lasting commitments of University resources.

THEREFORE, BE IT RESOLVED, that the Faculty urges the University Administration to pursue all possible legal means to preserve the integrity and confidentiality of the letters of evaluation solicited in regard to possible appointments of individuals to Cornell faculty positions, or in regard to promotions of faculty within the Cornell ranks.

The dean spoke to the resolution. It is a coming new problem to think over. We have depended heavily in the past on letters of recommendation in reaching promotion decisions; and we have depended on their confidentiality. If that is lost, the frankness and tone of the information will drastically change, along with its usefulness, whether originating with students or with persons on the outside. The intent is not to obstruct agencies having legitimate requests. If an investigator needs to see a letter, let him read it but not copy it; separate the written from the writer; attempt to protect the confidentiality. Our mode of procedure will surely change and our decisions be less sound if we lose that protection.

Professor Fine, chairman of the committee bringing the resolution, elaborated. The first WHEREAS is a statement of fact; the second

says that confidentiality is important; THEREFORE, protect it. No intent to block correct investigations is implied.

Professor Berkey saw two aspects. We already have on file letters obtained on the assumption that they would be—and they should be—kept from the public. On the other hand, from this point on we will receive new letters, which may or may not be kept confidential. He thought there should be another WHEREAS, i.e., "WHEREAS existing letters have been submitted under guaranteed confidentiality."

It was quickly clear that some members saw intrigue hidden in this that was not perceived by others. Professor Latham said it looked nice but he was alarmed at the way it had come up. He thought it was brought forward because there were cases now in the works charging unfair treatment in promotions—particularly of women and minority personnel. The resolution urges all possible legal means be used to retain confidentiality—in spite of our financial stress. He does not feel that the Faculty has been fully informed. Without passing on the merits of a group he called the Cornell Eleven, he said they had not the financial means to fight legalistic moves by the University in thwarting possible redress of their grievances. To pass this resolution now while the eleven cases are pending, would be seen as maintaining the status quo, that of a white, Anglo-Saxon, Protestant, male-dominated administration and faculty. (Scattered but loud applause.)

Professor Whitlock wondered why some judicious combustion could not be employed to solve the problem. The dean said he would not sanction the use of fire. In response to Latham, he indicated that one investigation had come properly from the Human Rights Commission; the investigator was allowed to read, but not to copy, what he sought; we would be acting improperly if we took any other course. But the information is not to go public.

Professor Galenson disagreed with Latham in his implied criticism of Cornell in Affirmative Action. He thought we could show one of the better records in this regard. But he nonetheless came down firmly on his side, feeling there was no way we could manage confidentiality were a federal judge to issue a subpoena for pertinent letters. The resolution could well be misconstrued.

Professor Boyd was also critical and inquired as to the reaction of the University Affirmative Action officer when he was consulted on the resolution. Professor Fine responded, pointing out that, as Boyd probably suspected, Affirmative Action was in no way involved in the proposal. The only issue was the protection of the integrity and confidentiality of documents we have requested under that label.

Professor Gold said he was the IL&R lawyer to whom Galenson had referred in his pointing out the impossibility of fighting a federal subpoena. If a plaintiff brings an action against the University, there is no way that confidentiality can be preserved, or the names on the letters to whom confidentiality was promised. He made two other points why the resolution would be unwise. To prove a point of discrimination there are two means: one can make a direct comparison between two candidates, stack them up against each other and decide. But if letters are hidden there is no way to do this. Then one has to resort to statistics, and we know how slippery they can be. There are statisticians; they're wise and they're damn wise. At which point Professor Blumen called a point of order. The point of the professor of statistics, together with Gold's rejoinder, were lost in the laughter. In any event, Gold said, to resort to statistics would be disadvantageous to the institution. He went on to his last argument to point out that our present system of promotion procedure is not sacrosanct. Ten years ago employers used a series of tests in hiring; now, that's illegal and he wouldn't think of it; ten years from now it will be something else again. Things change. Instead of considering our procedures sacred, let's devote ourselves to developing a system which is fair to candidates, accurate and legal.

Professor Penney was puzzled about circumstances resulting in the resolution. He

understood the administration was already properly allowing letters to be seen, and that they were being discreet about it. So why the resolution? He found himself on the horns of a dilemma. We're damned whatever action we take. If we vote "no" on the resolution, then we're damned for inviting the world to go through our files. If we vote "yes", it seems that nefarious motives are read into the vote and we're damned for knocking Affirmative Action. He uses the telephone in promotion procedures more than he uses letters; what happens to memoranda on telephone conversations.

To this there was no answer but Professor Kretzman, a member of the committee, without wishing to counter the effort of the committee, felt that not all aspects had been considered; people were seeing far broader matters involved than did the committee. He moved to recommit the resolution to the committee.

Professor Latham wished to know, however, why this had come up at this time. Did it come from the Faculty, from the Administration or the Council? Kretzman objected; further questioning at this time would, with the dilemma Penney had posed, simply augment the problem.

Before the vote on recommitment was taken, the incoming Secretary of the Faculty, Professor Bugliari, was recognized. He warned that this was a Faculty responsibility not simply to be left to Administration. It is a Faculty question. We have to decide it sometime. If we don't decide on the issue, we will be abrogating our responsibilities.

In the voice vote, recommitment carried by a wide margin, with few "nays."

The speaker then called on President Rhodes for a brief report. He told of the very satisfactory mid-year admissions in January: up 19 percent from last year. The prospect for next fall also looks good. There were 16,635 Freshmen applications—an increase of 7.8 percent, comparing very favorably with the experience of other Ivy League schools. From the Southeast U.S., applications were up 26 percent; from the Southwest, 10 percent. He reported another encouraging sign. Dean Meyer has conducted a poll among 600 of our 1978 graduates about their level of satisfaction with the Cornell experience. A surprising 331 responded. Better than 80 percent found as A-1 the library facilities, cultural advantages, challenges, laboratories, classrooms (the President disagreed there) and range of activities. Seventy percent were satisfied with their instruction, dormitory life and facilities, and with the unions. Sixty percent liked the research opportunities with Faculty. Only four percent found the campus governance satisfactory, and 50 percent found registration procedures OK. The President stressed the need to improve faculty advising; only 42 percent found it satisfactory. In summary, the poll found that 84 percent of the group would highly recommend Cornell to others.

He noted the demise of the School of Nursing in New York City. Discussions have been going on with Human Ecology on the possibility of some nursing activity in the college. A committee has recommended that a Division of Human Health be set up in the college; it would be a return to an old (ancient?) area of specialization here on the Ithaca campus. He spoke of study made recently of some facilities funding. There is still \$4.5 million to go before the Biological Sciences complex can get under way. For the performing arts, \$10 million will be sought in the next two years for a new center, which would have campus-wide significance. He commented on the budget. In spite of 3.5 percent less energy consumed this hard winter, the cost escalated by some \$100 thousand. Next year, it is estimated the cost will be up \$300 thousand. The cost of following federal regulations continues to increase. \$270 thousand will be the increase in Social Security next year, \$60 thousand for minimum wages increase. In the environmental area, there has been 600 thousand for a barrier around the coal pile, a possible \$700 thousand for filtration of water going back into Fall Creek. Albany's support of the statutory colleges has been disappointing; 48 percent of what was requested has been budgeted.

In concluding, he thanked the calendar committee for next fall's midterm break and for their continuing work on the calendar.

Professor Deshler asked whether or not the increased enrollment meant more minority students. The president did not know what the take would be this year, but last year enrollment went up 10 percent and SAT scores increased by 15 points. Encouraging. Professor Street asked how the nursing operation would be financed. The president said there were two differences between what is proposed here and what went on in New York. First, this would be a graduate program with small numbers of participants and, second, the State is showing some interest in support.

As the final item of the day, there was the dean's report. He said that the calendar committee would be coming out with its report on the new calendar, come the end of the month. This allows about 10 days' discussion before the May 9 FCR meeting, when it is hoped it can be voted on. He suggested making plans for discussion with constituents during the ten days to get widest Faculty opinion and input in the vote. He next regretted the election of a particular student representative to the Campus Council, whose only platform was one of mockery and destruction of the body. He earned 750 votes and had to be seated over another but worthy candidate who received 1150 votes. This resulted from the recent FCR affirmation of the Charter rule that only two students from one school or college could be seated. The student with 1150 votes would have made a third member of a college and so was disqualified. Too bad. The dean reported briefly on a poll he took on Faculty view of the mandatory retirement matter, so much opinion on it having been expressed with so little firm knowledge. The results were of interest. Overall sentiment—and more than 50 percent of the Faculty responded—was nearly evenly divided: 48 percent were for immediate extension of mandatory retirement age and 52 percent were not for it, the difference being statistically insignificant, about one standard deviation, he calculated, assuming random sampling. There were strong agreements based on age—not so much on college, although Human Ecology went 2-to-1 for immediate extension. Deans and department chairmen went 4½-to-1 for non-extension. Younger faculty were conservative: in the endowed colleges, those younger than 35 were 2-to-1 in favor of non-extension. With those above age 55 it was almost the reverse. Those not receiving the results can obtain them from the Dean's office.

Professor Blumen rose to criticize the dean, first for his statistical analysis and, second, for the poll itself. The sample was not random, the calculation of standard deviation was in error, it was a technical point, not important, pay it little heed. On the other hand, he was disturbed by the poll. It represents an alternative way to reach conclusions when he has established procedures; we usually make resolutions and vote on them in meeting. And for good reasons. Roberts strongly recommends that the referendum not be used; the outcome is too dependent on how the question is phrased and, further, those responding do not have the opinions of their colleagues. So it is not done. To do so here undermines the Faculty governance. And this was a referendum—no matter that it be called a preference poll. We're going to be in trouble if our officers or the Administration resort to this kind of operation. Uninformed people will be making the decisions. Let's get back to the procedures we've adopted, he concluded.

The dean defended his action. He sees referenda as making decisions. This one resolved a question in many minds as to how the Faculty feels as individuals; we are better informed than we were. In community discussion, there had been much uninformed supposition and guessing as to how the Faculty did feel on this important matter.

Professor Blumen ended the discussion indicating that referenda can be advisory as well as decision making.

Whereupon the meeting adjourned. As members filed out, the dean and Blumen were to be seen together at the blackboard thrashing out a matter of statistics. Who convinced whom, is not known.

P.L. Hartman, Secty.

U.S. Education Office to Support Grad Minority Students Program

The University has received a \$217,200 grant from the U.S. Office of Education for support of graduate minority students program.

"The grant was made in recognition of Cornell's successful efforts to train minority scholars and serves as an affirmation of the program's reputation as being one of the best of its kind in the nation," said Alison Casarett, associate dean of the Graduate School.

The grant will provide 24 fel-

lowships worth \$7,800 each for minority students during the 1979-80 academic year, according to Benjamin P. Bowser, assistant dean of the Graduate School and head of the program. The fellowships are renewable for up to three years. This means the grant potentially will total \$748,800 over the next four years. The fellowships will be used particularly for students in the sciences and planning, he said.

In addition there will be some \$30,000 available to help departments recruit students, cover additional administrative costs

and increase coordination with other graduate schools with similar programs.

One of the more striking measures of the success of Cornell's program is its low attrition rate—17 percent since 1970, Bowser said.

While a number of other universities have suffered substantial decreases in the numbers and quality of applicants following the Bakke case, Cornell's minority applications have remained relatively stable and in some aspect improved, he said. Currently there are 137 minority graduate students enrolled at

Cornell. The highest enrollment was 166 students in 1974. It was 122 in 1977.

"With the new funds we intend to continue to increase our numbers, contrary to the national trend," Bowser said.

As it turns out, the fallout from the Bakke case had far more negative effects on such programs from a psychological point of view than from a legal one, he said. Many black and other minority students feel discouraged from applying to graduate schools and some departments feel that they can now abandon a commitment to train minority

students in their field, Bowser said.

He said Cornell was able to keep up its pool of qualified candidates because of intensive recruiting, not only among blacks but also Puerto Ricans, Chicanos and American Indians. These groups, as well as blacks, are grossly underrepresented in all areas of higher education and the professions. A portion of the grant monies will help increase recruiting efforts aimed at countering the negative reactions of minority students to the Bakke case.

Lawyer Competence, Moral Education to Be Discussed

A series of public discussions on lawyer competence and the moral education of lawyers will take place here this Friday and Saturday.

Nearly a dozen professors from some of the nation's leading law schools and universities will take part in the discussions, sponsored by the Law, Ethics and Religion Program at the Cornell Law School. The program is titled "A Consultation on Lawyer Competence, Law Schools and the Moral Education of Lawyers."

It will open with an address by Roger Cramton, dean of the Cornell Law School, scheduled for 8 p.m. Friday in Classroom C of Myron Taylor Hall, where all

subsequent sessions will take place.

Cramton's topic will be "The Quest for Lawyer Competence: Implications for the Law Schools." Commenting on his talk will be Geoffrey Hazard, a professor at Yale Law School; Peter Martin, a professor at Cornell Law School; Thomas Shaffer, a professor at Notre Dame Law School and Andrew Watson, a professor of law and professor of psychiatry at the University of Michigan.

Saturday at 9 a.m. Hazard is scheduled to give a talk on "The Ethical Element in Legal Education: The Classroom Setting." Commentators will be David Lyons, professor of law and

philosophy at Cornell and Judith Younger, professor of law at Cornell.

At 10:45 a.m. David Barnhizer, professor and director of Clinical Legal Education, Cleveland-Marshall College of Law, will discuss "The Ethical Element of Legal Education: The Clinical Setting." Commentators will be Norman Penney, professor of law at Cornell and Watson of the University of Michigan.

At 1:30 p.m. Shaffer of Notre Dame will talk on the subject, "The Ethical Element in Legal Education: The Institutional Setting." Responding will be William Hogan, law professor at Cornell and John Lee Smith, director of the Law, Ethics and Religion Program at Cornell.

The public discussion will conclude with observations, starting at 3:30 p.m., by Cramton and Martin of Cornell, Shaffer of Notre Dame and Hazard of Yale.

Society for the Humanities Holds Spring Conference

Twelve scholars from the United States and Great Britain will come together here Friday and Saturday for the major spring conference of the Society for the Humanities.

"Infinity, Continuity, and Indivisibility in Antiquity and the Middle Ages" is the title of the conference that will be held in six sessions at the Andrew Dickson White House. The Sage School of Philosophy at Cornell is co-sponsor with the society.

The program is:

9 a.m. April 20—"The Greek Commentators on Continuity," paper by David Furley, classics, Princeton University; commentary by Michael Frede, philosophy, Princeton;

11 a.m. April 20—"Time Atoms," paper by Richard Sorabji, philosophy, King's College, London, and a fellow at the society this year; commentary by Fred Miller, philosophy, Bowling Green State University;

2 p.m. April 20—"Pre-Socratic Concepts of Infinity and the Method of Exhaustion," paper by Wilbur Knorr, history of mathematics, Institute for Advanced Study; commentary by Ian Mueller, philosophy, University of Chicago;

4 p.m. April 20—"Ockham and Buridan on Infinity and Continuity,"

paper by John Murdoch, history of science, Harvard University; commentary by Eleonore Stump, philosophy and religion, Virginia Polytechnic Institute;

9 a.m. April 21—"Infinite Indivisibles in Fourteenth-Century Theories of Alteration," paper by Edith Sylla, history and philosophy of science, North Carolina State University; commentary by Calvin Normore, philosophy, Princeton.

11 a.m. April 21—"Continuity, Contrariety, Contradiction, and Change," paper by Norman Kretzmann, philosophy and medieval studies, Cornell; commentary by Paul Spade, philosophy, Indiana University.

At 2 p.m. April 21, the conference will conclude with a general discussion among all participants of various issues raised during the sessions.

"The conference is significant because it explores one major aspect of the philosophical origins of the scientific mind in the western world," according to Michael Kammen, director of the society.

"The papers should have particular appeal for classicists, ancient and medieval historians, persons interested in the history of philosophy of science, mathematicians, physicists, and anyone concerned about the development of precise measurement, and of changing perceptions of space and time," he said.

Alchemy Talk Set

Earle Barnhart, director of agricultural forestry and former director of energy at the New Alchemy Institute, will speak on "The Merging of Biology and Technology: A New Alchemy" at 8 p.m. Thursday, April 26, in 401 Warren Hall.

The institute is an international research and educational organization seeking decentralist, holistic strategies for sustaining human cultures and restoring lands.

Barnhart has designed and built several small solar heated food producing research units and is the co-designer of Bioshelter 1, a solar heated, wind-powered farm for commercial production of aquatic and terrestrial foods.

His lecture is sponsored by the University Lecture Committee and the Department of Vegetable Crops. It is free and open to all interested persons.

Holistic Health Workshop Is Planned

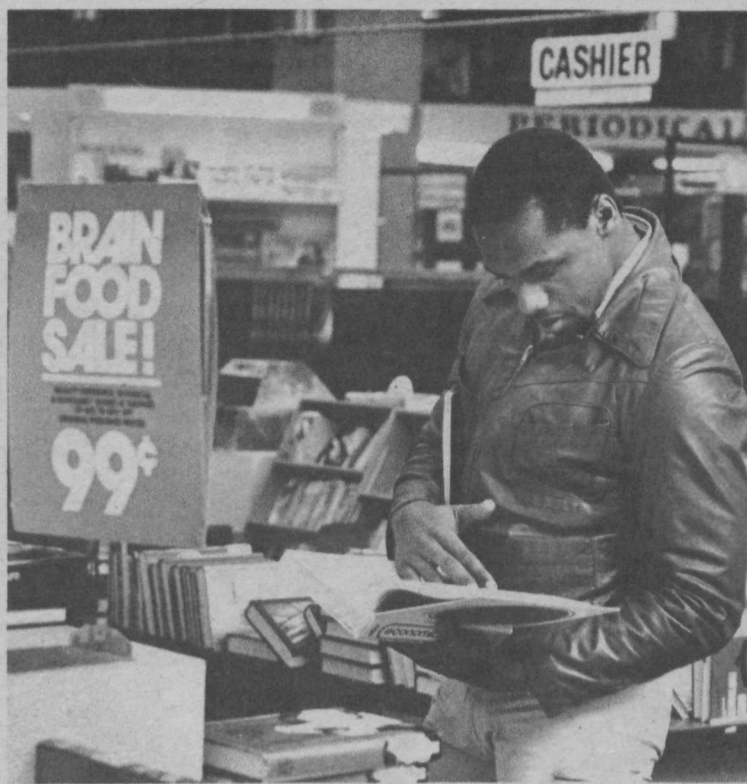
"Holistic Health: Healthier Than Healthy," an experimental workshop designed to help participants discover and use their abilities to aid their own healing processes, is scheduled for April 20-22 in Anabel Taylor Hall.

During the workshop participants will learn and experience gentle stretching exercises to relieve the effects of tension; breathing and meditation techniques to help calm the emotions and attain mental peace; and guidelines for diet and nutrition that can easily and painlessly lead to healthier habits, its sponsors say.

Cost of the three-day workshop is \$30; \$20 with student I.D.

It is sponsored by the Centre for Religion, Ethics and Social Policy and the Interreligious International Ministry.

For further information, call Betsy Shaw, 256-4214.



Brain Fodder

Kenneth Talton, Arts '79, checks out one of the book buys at the Campus Store. A running back on the football team, Talton is also the holder of the Cornell record in the decathlon and also competes in the long jump, triple jump and discus throw for the track team.

4 Professors-at-Large To Deliver Public Lectures

Four Andrew D. White Professors-at-Large will be on campus this month and next, giving public lectures on such topics as science and society in the French revolution, the world's potential in crop production, safe disposal of nuclear wastes and the meanings of actions.

This Friday, at 4 p.m. in Room 251, Malott Hall, Jacques Roger, historian of science and literature at the University of Paris I (The Sorbonne) will lecture on the topic "Science, Politics, and Society: the case of the French Revolution."

At 4 p.m. Monday, April 30, in the Boyce Thompson Institute Auditorium, Cornelis T. deWit, of the Agricultural University in Wageningen, The Netherlands, will discuss the topic, "Physiological Potential of Crop Production."

At 7:30 p.m. Thursday, May 10, in B-11 Kimball Hall, A.E. Eingwood of the Research School of Earth Sciences, The Australian National University, will lecture on "A Safe Disposal of High Level Nuclear Reactor Wastes: A New Strategy."

At 4:15 p.m. Friday, May 11, in the Hollis E. Auditorium of Goldwin Smith Hall, Ragnar Rommetveit, director of the Institute of Psychology at the University of Oslo, Norway, will lecture "On the 'Meanings' of Acts and What Is Meant by What Is Said About Them in a Pluralistic Social World."

The professors will be on campus anywhere from a week to three weeks in their capacities as professors-at-large, meeting in formal and informal discussions and seminars with students and faculty.

Human Ecology Opens Courses Campus-Wide

The State College of Human Ecology has opened several courses to campus-wide registration by removing enrollment limits and other restrictions. The courses have broad appeal and are particularly appropriate for students majoring in other colleges at Cornell, according to William Gauger, assistant dean of the college.

The courses are: Structure of Community Services (HSS 202); Housing and Society (CEH 147); Personal Financial Management (CEH 330); Drawing (DEA 115); Environmental Analysis: Human and Social Factors (DEA 150);

Dress: A Reflection of American Women's Roles (DEA 245); Family and Community Health (HDFS 302); Human Development: Infancy and Childhood (HDFS 116); Human Sexuality: A Psychosocial Perspective (HDFS 315); Preparation for Fieldwork: Perspectives in Human Ecology (ID 200) and Ecology of Human Nutrition and Food (NS 115).

Details and registration materials are available in Martha Van Rensselaer foyer through April 20. Students enrolling in April will be guaranteed a place in these courses.

Saperstein Is Sage Speaker

Rabbi David Saperstein, a 1969 graduate of Cornell, will speak at the Sage Convocation at 11 a.m. Sunday, April 22. His topic will be "Lingering in Sodom: America and Salt II."

Saperstein is the co-director of the Religious Action Center and

the Commission on Social Action of the Union of American Hebrew Congregations and the Central Conference of American Rabbis. He is a lawyer and an adjunct professor in Comparative Jewish and American Law at Georgetown Law School.

Music will be provided by the Sage Chapel Choir under the direction of Donald R.M. Paterson, University organist and Sage Chapel choirmaster.

'Why Fish Flash' to Be Topic of Brothers' Talk

The stage for an underwater light show, scheduled to arrive here during the first week in May, will be set by Edward Brothers, assistant professor in the University's Section of Ecology and Systematics, with a lecture on "Why Fish Flash" at 4:45 p.m. Tuesday, April 24, in G-1 Stimson Hall.

Brothers will discuss bioluminescence in fish, a phenomenon caused by billions of microorganisms that live in special organs on the fish's body.

Some bioluminescent fish use their light organs to attract prey. One type of fish actually has a luminescent "fishing rod" that it

can slide backward on its head to guide prey into its mouth. Other fish use their natural lights to confuse predators.

The bioluminescent fish coming to Cornell are members of the species *Kryptophanaron alfredi*, native to the waters of Puerto Rico. They were re-discovered last year, having escaped detection since 1907.

The fish will be kept in the dark room of the Marine Biology Office, G-14 Stimson, and will be available for viewing from 9 a.m. to noon and from 1 to 4 p.m. Mondays through Fridays. The Cornell collection will be only the third of its kind in the country.

Law Symposium Slated

"Minorities in Law" is the theme of the sixth annual symposium, sponsored by the Minority Undergraduate Law Society. The symposium will begin at 1 p.m. this Saturday in Kaufmann Auditorium.

Four speakers are scheduled to address pre-law and law students from Cornell as well as students from area colleges and the public.

Among the speakers is Fred Gray, an Alabama attorney who defended a group of black men who, in 1945, were left un-

treated for syphilis by federal authorities who wanted to study effects of the disease. The men recently won a \$9.5 million judgment in the case.

Other speakers are Turner O'Neal, believed to be the only black attorney in the United States practicing international law; Susan Perry, senior legislative aide to Congresswoman Shirley Chisholm, D-NY, and Keith Goffney, a 1976 Cornell graduate and now a second-year law student at Columbia Law School.



Dialogue on Thought Schedules 3 Retreats

"Dialogue on Thought," a program sponsored by the Office of the Dean of Students to stimulate closer relationships among students, faculty and administrators, has scheduled three weekend retreats this spring.

Cornell students, faculty and administrators get together on the weekends in an informal atmosphere to have thoughtful discussions, games of softball or Frisbee, or just to make friends.

The first of the weekend programs, with Mary and Peter Katzenstein, faculty members in the government department, will be held this Saturday and Sunday. Their topic will be "Equality: At Home and Abroad."

The second retreat is scheduled April 28 and 29. Karen Brazell, chairwoman of the Department of Asian Studies and professor in the Women Studies Program, and George Gibian, professor of Russian literature, will discuss "Living and Studying in Foreign Countries."

Sherman and Jan Cochran will discuss "China in Today's World" on May 5 and 6. Sherman Cochran is a faculty member in the Department of History; Jan is a gourmet cook who has her own catering service. The Cochrans will show slides of their recent trip to Mainland China and everyone involved in the weekend will participate in the preparation of Chinese meals.

"Dialogue on Thought" was formed last year by a group of students who were interested in extending the Cornell educational experience beyond the boundaries of the classroom," according to Florence Berger, associate dean of students.

"Many students want more informal contact with professors," she continued.

Richard J. McNeil, associate professor of natural resources, conducted a weekend last fall on "Power: Personal Power and Control." He said later, "It's an outstanding activity to be involved in. I got a chance to find out who the students are and what they're thinking and how I can be helpful to them."

Kathryn March, a lecturer in anthropology and women's studies departments, led a weekend on "Marriage Systems: Changes in Marital Expectation." She said she was "pleased with the new access to undergraduates. Rather than being in the position of giving a formal lecture, I found the others looking to me more as a mature arbitrator."

Registration is limited to approximately 12 people per retreat. There is a \$5 registration fee, but Berger said there are scholarships available for those who cannot afford the fee. To register or for further information, call Berger or Debbi Barley at 256-3608.

Panelists Will Discuss Education of Handicapped

Upstate New York educators, parents and others actively interested in free public education for handicapped children will make up a panel here at 10 a.m. Saturday, May 5, in Uris Auditorium.

The discussion is one of more than 10 events scheduled as part of "You Don't Have to Hear to Write a Symphony: A Conference on the Rights and Concerns of the Handicapped" April 30, May 3, 4 and 5. The entire program, sponsored by community and Cornell organizations, is free and open to the public.

A "One-to-One Festival for Kids" is also on the May 5 schedule. From 1 to 5:30 p.m., children, including those with handicapping conditions, will share the afternoon with college students on a one-to-one basis. Parents who wish to have children attend, must register by calling Tom Andrews at 256-5356. Among the activities will be music, mime, a party and a concert, all adapted to the individual abilities of each child.

Nancy Battistella, special education teacher with Developmental Disabilities Services and parent member of Ithaca's Committee on the Handicapped, will

make opening remarks and moderate the 10 a.m. panel titled "A Free Appropriate Public Education for All Handicapped Children."

Panelists are Marcia Slutsky, former Rochester coordinator of the Protection and Advocacy System for Developmental Disabilities and a delegate to the White House Conference on Handicapped Individuals; Roland Smiley, regional associate of the New York State Education Department, Region II office in Syracuse; attorney Ruth Siegel of the Ithaca School Board; attorney Richard Ellison of the Syracuse University Law School Center on Human Policy; Enfield teacher Pat Bennett who has taught handicapped children for nine years, and John Stefano, chairman of the Dryden School District's Committee on the Handicapped and principal of Dryden Junior-Senior High School.

Their presentation will deal with the scope of and right to special education and related services for all children with handicapping conditions, and the concept of "least restrictive setting."

Among the other panels, workshops and films scheduled during the week is a session on deinstitutionalization featuring Bernard Carabello, a former resident of Willowbrook Developmental Center on Staten Island, now with the National Association for Retarded Citizens. The session is slated for 9 a.m. May 3 in Anabel Taylor Hall.

A complete program for the four days of activity has been mailed to organizations and individuals throughout Upstate New York. Anyone interested in obtaining a copy should contact the Office of Equal Opportunity, 215 Day Hall, Cornell (256-3976).



The Way We Were

For many years an annual event in the spring was a 'mud rush' which pitted freshmen against sophomores in a contest on a field that had been flooded into a sea of mud. This photograph was taken in 1922, with the legendary Hugh Troy as photographer, according to the notation on the print. Veteran observers of student madness at Cornell remember that the event ceased to happen, either by decree or by lack of interest, sometime during the 1930s.

Extension: "The Other Cornell"

Thirty years ago, Cooperative Extension was established in New York City with the initiation of a regional project in food marketing for urban consumers.

Today, Cooperative Extension is the heart of what Eugene Ezersky called "the other Cornell" in a recent talk to alumni of the State College of Human Ecology. Ezersky is New York City coordinator of Cooperative Extension.

He described "the other Cornell" as "bounded by firegutted tenements and rumbling graffiti-subways, by glassstrewn play areas and rusting fire escapes, by manifestations of urban decay."

But undaunted by such an environment, "it is the Cornell that is attempting to rekindle some of the flames which will once again spew vitality out of the melting pot."

In responding to the challenges of colliding cultures,

reordered priorities and changing lifestyles, not only are campus programs being reexamined, but Cornell's commitment to serving the cities is being expanded, "a position which Extension enthusiastically endorses," he said.

The "other Cornell" is a Cornell of 120 people with an urban commitment which bespeaks the insight and social consciousness of Lucinda A. Noble, director of Cooperative Extension, and the deans of the State Colleges of Agriculture and Life Sciences, and Human Ecology, which administer and support extension, he said.

"Cooperative Extension touches many lives through daily one-to-one contact, through the press and through local community groups," Ezersky said. It works with city institutions which serve people—the board of education, state and national parks, the housing and recreation department, the consumer pro-

tection agency.

He gave examples of how city residents have benefited from Cooperative Extension: through the nutrition education program in which good nutrition is taught in homes by local women trained by extension professionals; through information and technical assistance in establishing and growing 2,000 vegetable gardens in the city; by training "hundreds of teachers who teach thousands of children" in programs of environmental education, bicycle safety, food and sewing; by a tenant orientation program; and through distribution of more than two million copies of useful energy information sheets to city residents. Cooperative Extension provided the leadership and know-how that took 4,000 city school children and their teachers to farms and seashores around the state last year.

Three University Scientists Awarded Sloan Fellowships for Basic Research

Three University scientists have been awarded Sloan Fellowships for Basic Research. They are Paul L. Houston, assistant professor of chemistry; Stuart L. Shapiro, associate professor of astronomy, and Andrew J. Sommese, assistant professor of mathematics.

The fellowships, which run for two years, provide researchers with \$10,000 per year. Fellows need not pursue a specified research project and are free to change the direction of their research at any time.

The author of more than 30 scientific papers, Houston is particularly interested in the applications of lasers to chemical problems such as laser-induced dissociation, chemical reaction and energy transfer. In addition to providing fundamental information about the dynamics of chemical changes, Houston's research is important to the practical areas of laser development, atmospheric chemistry and laser isotope separation.

Houston came to Cornell in 1975 after graduate study at Massachusetts Institute of Technology and postdoctoral research at the University of California at Berkeley.

Shapiro, a theoretical

astrophysicist, is known for his work on black holes, the dynamics of star clusters and relativistic astrophysics. He has published more than 36 papers on his work and is the co-recipient of a large National Science Foundation grant for studies in theoretical astrophysics.

He holds the A.B. degree from Harvard University and the master's and Ph.D. from Princeton University. He joined the Cornell faculty as an instructor in 1974; he was promoted to assistant professor in 1975 and to associate professor in 1978.

Sommese's fields of interest are complex analysis and algebraic geometry. He joined the Cornell faculty in 1975 and is

currently on leave of absence at the Mathematics Institute of the University of Bonn, West Germany. He will leave Cornell in July to become an associate professor at the University of Notre Dame.

The Sloan Foundation selected 78 young scientists in the U.S. and Canada for the fellowships this year. The scientists, according to the foundation, were chosen on the basis of their "exceptional potential to make creative contributions to scientific knowledge in the early stages of their careers." Sloan fellows work in the areas of physics, chemistry, mathematics and neuroscience.

Department of Education to Offer Special Intensive Courses in June

College professors, administrators, adult educators and human services professionals are expected here for the third annual special program in education being offered this June by the Department of Education at the State College of Agriculture and Life Sciences.

Two semester credits will be offered in four seminars for five days of concentrated study. Tuition for all courses is \$55 per

credit plus a general fee of \$5 per week.

The seminars to be offered are:

—June 11-15: Effective Human Interaction,

—June 11-15: Seminar in Methods for Improving College Teaching

—June 18-22: Seminar in Adult Learning will provide a basic understanding of the adult learner in continuing educational

6 Hours Science 'Inadequate'

Editor:

I was both surprised and puzzled by Professor Elias' response to my letter in the Chronicle (3/29). The question of curriculum content was adroitly replaced by a complaint regarding teaching methods and the obnoxious practice of assigning grades (in very large classes) on a basis of a curve. The motives of my colleagues in the sciences were impugned — tainted by their zeal for professionalism. I sincerely believe that his impressions are based on inadequate data. I apologize to all Cornell students who may have suffered from failure of the Chemistry Department to provide instructors who are always sympathetic and outstanding teachers. Indeed, perfection is as difficult to achieve in the sciences as in the humanities. Some of our majors occasionally complain to us about professors in the other side of the quadrangle who are not well prepared for their lectures, who rarely appear for office hours, or who do not tolerate divergence of opinions on subjective matters. My response to such complaints is that a student is fortunate indeed if as many as two-thirds of his teachers live up to his or her expectations.

Before returning to matters of curriculum a comment on grades is in order, since Professor Elias attaches so much significance to this (in my opinion) peripheral aspect of the teaching process. First, it is important to stress what grades are not. They do not measure a student's brilliance or innate ability. They do not reflect on his personality nor his understanding of the human condition. Grades merely measure a student's *performance of the tasks assigned to him* by the instructor. The assignments are given to guide his learning of facts and concepts. He is urged to read, discuss, experiment and to probe. Failure to complete assignments closely correlate with failure to respond to examination questions, which are not designed to befuddle or trick students but to determine whether they have learned the scientific facts, the theory and their applications. A jumbled, incomplete sentence cannot be accepted as an adequate answer, even though the student insists that he really "knows the answer but he couldn't express it to the satisfaction of the instructor." Yes, in science there are wrong answers which cannot be made correct by subjective opinions. Through personal contact a sympathetic instructor may be con-

vinced that the particular student is bright, and fully able to comprehend the course material, but failed to do so either because of misadventure or lack of interest. In either case the instructor should not testify to a future employer or to a succeeding instructor that this student had performed the assigned tasks. I repeat, grades establish a record of accomplishment which employers or admissions offices have a right to know. Incidentally, for the edification of Professor Elias, in a large class, the plotting of grade distributions is a *control on the instructor*; it provides him with a calibration of how well he presented the material and how carefully he wrote the examinations. I still find it difficult to believe, after more than four decades in the teaching profession, that grades in whatever form get in the way of serious, intellectual efforts, which is what we must demand from our students.

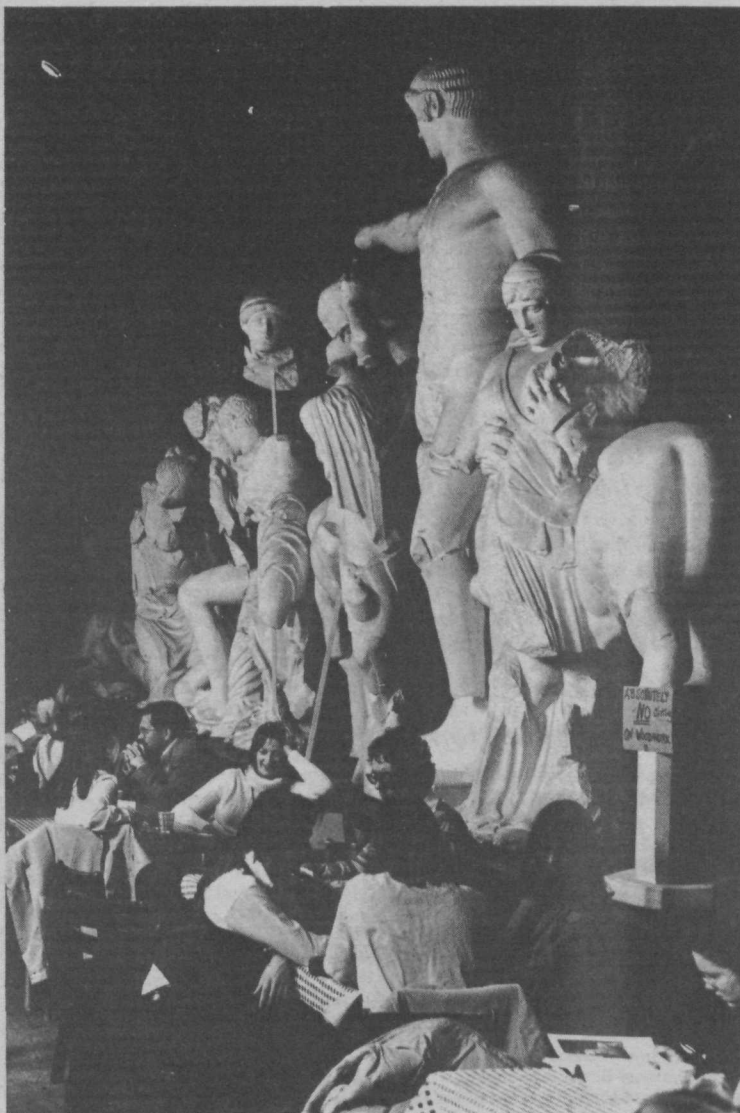
Professor Elias asked me how I would translate my wishes into practice. I now speak for myself, not for the Chemistry Department. I call to his attention the fact that it is the rare student, who majors in the physical sciences, who devotes less than 40 percent of his course program to the humanities and the social sciences. When such situations arise, they do so through the complete disregard of advice from their science advisers. I do not request a reciprocal fraction of time from majors in the humanities. I do propose that in a highly technological society, to achieve understanding of the world in which they live, all students should devote a minimum of 25 percent of their school time to the physical and biological sciences. The inadequacy of the current mandatory six-credit hours of science is obvious. The course is often selected with an eye for a minimal effort, upon consultation with an adviser whose naked antagonism to anything quantitative and objective injects a significant bias in the student's attitude, and strongly reinforces whatever sad experiences the student may have had with science courses in high school.

Each of us can prepare an outline of what he would wish nonscientists would know *about* science. He could recite these to assemblies of bodies in less time than 86 lectures, which comprise a six hour course. But such an approach would not lead to the level of comprehension and personal involvement which will be

required of citizens who will have to make serious decisions during most of their lives in the 21st century. It is not possible for the science faculty to transmit to those students who suffer from the "I must take six hours of science" syndrome, sufficient knowledge so that they will recognize the difference between science and technology; so that they will understand what these disciplines *cannot do* as well as what they can do; so that the inane question, "If we can send a man to the moon, why haven't we developed a cure for cancer" would never occur to them. What fraction of our graduates with BA degrees know enough to discriminate between a scientist or an engineer who testifies as an expert, and a person with a degree in science who is promoting a cause, because he is paid to do so, or has an emotional bias? Can these college graduates assess the relative merits of the various energy resources, conditioned on some accepted growth rate for our society? Can they judge the options open to them relative to the environmental impact of an expanding economy? Do they understand that there are significant scientific and technological questions for which there are no answers, or that some answers must be stated in terms of relative probabilities?

I take issue with the concept that a six-hour course in the sciences is sufficient, based on the expectation that the scientific members of the faculty will set up special courses to enlighten, entertain, stimulate and inform a group of students *about* science but not to make them too difficult. Where will they learn to appreciate the significance in their lives of what has been accomplished during the last 200 years, and of the dizzying rate of current developments? Will they ever learn to distinguish a scientific law from a theory, the significance of critical experiments, the unreliability of a collection of correlations, what is meant by different levels of proof in the biological vs the physical sciences, and on and on? My solution, Professor Elias, is that you ask your students to get personally involved with science and mathematics (10 hours?) and I guarantee that we will not short change them, nor allow them to miss a most exhilarating intellectual experience, which comes with an appreciation of what the giants in science have accomplished.

Simon H. Bauer
Professor, Physical Chemistry



Traffic Problems Viewed

Editor:

It seems if we can run a university the size of Cornell, we should be able to come up with a better parking situation and transportation system than we have at present.

Now granted, it is utterly impossible to have everyone working at the university parking on campus, but it also seems even more ridiculous that you have to make \$14,000 and be an exempt employee or in the eyes of Cornell to be seriously disabled to get anywhere close to your building. As ridiculous as it may seem, the majority of employees are subjected to the inhuman indignity of being treated like a herd of cattle. During certain hours we are crammed into buses loaded beyond their legal limits; exposed to the further indignity of listening to a bus driver scream to move back or he will refuse to move the bus.

As uncomfortable and inconvenient as it is in the mornings, 8 hours later the situation is worse. The majority of the staff gets off work at 4:30 p.m. tired from our day's work to find ourselves crowded into small shelters waiting for a bus. The bus schedule promises us a bus every 5 minutes. They seldom achieve that schedule. After the 20 minutes in the cold and rain or whatever, you see a bus pulling into sight. You think to yourself,

"at last, you finally made it." Everything looks hunky-dory until they open up the doors and you see enough room for only 5 or 6 people. Once again, you are stuck waiting.

We have this great fantasy; if all the people that currently have "U" permits were to ride the bus every day while the rest of us had the pleasure of driving directly to our place of work, perhaps then we might see some improvements in our transportation, such as:

Establishing a better method of dispersion of "U" permits. For example, people in a car pool should have first grabs for two reasons. The main one is extra effort in saving on fuel thus helping out on the shortage; second, it cuts back on the number of cars around the university. Special parking lots of small cars that save fuel and space could be provided.

Some other ways of getting rid of the havoc is to run more buses during peak hours — fewer during nonpeak hours, have more express routes, and better staggering of arrival and departure times for Cornell employees.

With some honest concern for the welfare and dignity of the non-exempt employees this parking and transportation problem can be solved.

Kevin L. Sharp
Catherine Valentino

Editor's note:

Director of Transportation Services, William E. Wendt responds:

"Efforts to increase the flexibility of the permit issuance process and to establish more equitable distribution of the scarce parking space are being discussed for the future by the Campus Council Committee on Transportation Services. To encourage car pooling, the Committee on Transportation Services' policy for 1979-80 will allow for processing car pool permit requests first.

"Bus service is designed to provide five minute headways during times of peak demand. Buses do run full at those times, but drivers will not carry more passengers than the legal limit. Traffic congestions, weather and

other factors can affect the ability to maintain schedules on any day. Evaluation and adjustment of schedules occurs routinely as seasonal commuting patterns and semester class schedules affect a load.

"Comments and constructive criticism of service should be directed to the manager of the Campus bus Service, supervisor of the Traffic Bureau or director of Transportation Services.

"The problems of adequately meeting the community's parking and transportation needs are expensive and complex. It is imperative that the community at large view the parking and transportation program from a community perspective rather than one of self-interest."

Headline Causes Confusion

Editor:

The article in the Chronicle of April 12 announcing a benefit concert by the brilliant lyric soprano and Cornell alumna Susan Davenny Wyner may inadvertently have given rise to some confusion. The headline stated, "Benefit Recital to Aid Friends of Music." Since, however, the "Friends of Music" is a non-profit group which disburses all of its funds to help music students at Cornell, the headline should properly have read, "Benefit Recital *with* an Music Students at Cornell."

Further confusion may have arisen from the existence of a "Friends of Music" at Cornell as well as a national "Friends of Music." The former is a group of many years standing, made up of

local music-lovers who banded together to give financial support to Cornell music students in the form of small grants and scholarships to be used for lessons, buying music, pursuing research, mounting concerts, etc.

The national "Friends of Music," on the other hand, is a recently formed group of alumni who themselves participated in musical activities in their Cornell days, and who are determined that future generations of Cornellians shall have similar opportunities for music making. Their contributions have supported such projects as repairing musical instruments, helping to finance concerts of music by student composers, and enabling Cornell choruses to travel to other cities in order to sing with

professional orchestras.

We are deeply grateful for the moral and financial support of both of these groups. It is the latter — the national "Friends of Music" — which is sponsoring Ms. Davenny Wyner's benefit concert. This seems appropriate, as Ms. Davenny Wyner is herself a member of the board of directors of that organization.

Neal Zaslaw
Chairman, Department of Music



Local AIIE Sponsors Lecture

Robert G. Brown, president of Material Management Systems Inc., will lecture on the subject "The Future of Production Planning and Inventory Control," at 4:30 p.m. today in Room 305 Upson Hall, under the sponsorship of the local chapter of the American Institute of Industrial Engineering.

Office Space Applications Due

The deadline for applications for office space in Willard Straight Hall for student organizations is Wednesday, May 2. Applications may be picked up at the Straight desk, which is open from 9 a.m. to 10 p.m. Monday through Friday.

Safety Shoes Available for Employees

Employees will have an opportunity to buy special safety shoes on campus next Thursday. The shoes will be sold from a mobile store scheduled to be parked at Stocking Hall from 9 a.m. to 12:30 p.m. and between Barton Hall and the Statler Inn from 1:30 p.m. to 4 p.m. Additional details may be obtained by calling Alex McCord, Department of Life Safety, extension 6-3744.

Flora Rose Prize Nominations Due

The deadline for nominations for the Flora Rose Prize is Tuesday, May 1. The \$125 prize, awarded annually, is given to a Cornell junior or senior who demonstrates the greatest

promise of contributing to the growth and self-fulfillment of future generations.

Written nominations will be accepted from any person in the Cornell community. The names of two individuals, at least one faculty or administrative staff, who can comment specifically on the qualifications of the nominee, should be included.

Nominations should be submitted to Barbara Morse, N101 Martha Van Rensselaer Hall.

Four Students Win Chemistry Prizes

Four Cornell University undergraduates have received Laubengayer Prizes in recognition of their outstanding performance in the University's introductory chemistry courses.

Lorraine M. Balchunas and Nancy A. Ruffing, freshmen in the College of Agriculture and Life Sciences, were honored for their records in Chemistry 215; Mark Mietlowski, a sophomore in Arts and Sciences, for Chemistry 207, and Ralph S. Rathbun, a freshman in Agriculture, for Chemistry 103.

The prizes were established in honor of A.W. Laubengayer, professor of chemistry emeritus, at the time of his retirement in 1966.

Activities Planned for Yom Hashoah

Several activities are planned to commemorate the holiday Yom Hashoah — Holocaust Day Remembrance — on campus April 24 and 25. A Holocaust Commemoration Service is scheduled for April 24 at 7:30 p.m. in the Memorial Room of Willard Straight Hall; it is to include dramatic readings. Two films, *Triumph of the Will* and *Night and Fog*, will be

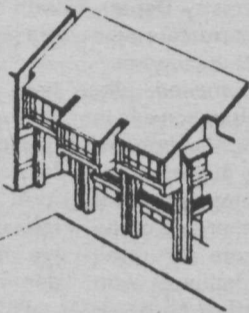
shown on April 25 at 7 p.m. in Ives 120. A Holocaust and Resistance Exhibit will be on display both days from 10 a.m. to 4 p.m. in the Memorial Room of Willard Straight Hall. All events are free and open to the public. The events are sponsored by Hillel, Cornell United Religious Work and the Center for Religion, Ethics and Social Policy.

Nominees Sought for Italian Award

Nominees are being sought for the first Elena Lucrezia Cornaro Award sponsored by the Order of the Sons of Italy in America to promote and enhance appropriate recognition of women in society.

All nominees must be women of Italo-American descent—either through lineage or marriage to an Italo-American—who have received the equivalent of a doctorate and who are New York State residents.

Women who wish to be considered for nomination by Cornell Provost W. Keith Kennedy should submit a curriculum vitae and one letter of recommendation to Anne Roscoe, coordinator of the Provost's Advisory Committee on the Status of Women, at 215 Day Hall by April 27.



Sponsored Programs

NSF Programs in Basic Research

The National Science Foundation has announced a new program to initiate and support Integrated Basic Research within its Directorate of Applied Science and Research Applications. Proposals may be submitted at any time. The following four topics have been selected for funding consideration in FY 1979:

1) *Advanced Measurement Investigations* — This topic would support efforts to accelerate the creation and development of new measurement methods, spanning scientific disciplines.

2) *Deep Mineral Resources* — This topic would address understanding the origins of deep deposits and the relations of geodynamics and tectonics to metallogenesis. Advanced understanding of geophysical and geochemical characteristics are needed for developing new exploration technologies.

3) *Biochemical Cycles of Carbon, Nitrogen, and Sulfur* — Research efforts are being focused on the carbon cycle in order to better understand its regulation, interaction with other cycles, role in the global energy budget, and how the cycle affects all biota, including human activity. Carbon, nitrogen and sulfur have been selected for priority consideration. Examples of studies which might be supported include: carbon dioxide exchange and modelling of the exchange between the atmosphere, the oceans, and the biosphere; historical information on natural fluctuations in atmospheric levels of carbon dioxide and other important gases; the radioactive properties of atmospheres enriched with carbon dioxide and dusts and particles; and the status of tropical forests and soils as sources or sinks of atmospheric carbon.

4) *Population Redistribution* — Current models of population migration based on responses to job opportunities are no longer adequate; and enhanced understanding of the processes underlying population shifts, migration decisions, industrial location, and residential choices are necessary to provide a more complete explanation and improved prediction of population redistribution patterns.

Questions concerning the program may be directed to the Integrated Basic Research Division, National Science Foundation, 1800 G Street, N.W., Room 1149, Washington, D.C. 20550 (202) 632-5957.

Further information may be obtained on this program at the Office of Sponsored Programs, 123 Day Hall (6-5014).

Behavioral Science Research Stipends

The Spencer Foundation has announced a June 1 deadline for stipends of variable amounts for research in the behavioral sciences aimed at the improvement in education in such fields as gifted children, studies of early childhood, studies of schooling, including innovative and "free school" approaches. A preliminary proposal should be sent to the Foundation. Additional information is available from the Office of Sponsored Programs, 123 Day Hall.

FUNDING SOURCES DEADLINE FOR HUMANITIES AND ARTS		
AGENCY	PROGRAM	DEADLINE
National Endowment for the Arts	Livable Cities	May 15, 1979
	Design: Communication and Research	May 15, 1979
	Cultural Facilities and Design	May 15, 1979
	Services to the Field	May 15, 1979
	General Programs	May 15, 1979
	Professional Fellowships	May 15, 1979
	Project Fellowships	May 15, 1979
	United States/Japan Exchange Fellowships	May 15, 1979
	Media Arts: Film/Radio/Television	June 1, 1979
	Catalogue Program	July 2, 1979
	Conservation Program	July 2, 1979
	Renovation Program	July 2, 1979
	Utilization of Museum Collections	July 2, 1979
National Endowment for the Humanities	Jazz Music	June 1, 1979
	Open Musical Theater	May 25, 1979
	Art in Public Places	June 30, 1979 (Preliminary)
	Development Grants	July 1, 1979
	Higher Education Project Grants	July 1, 1979
	Fellowships:	
	Category A: Independent Study and Research	June 1, 1979
	Category B: Primarily for Undergraduate Teachers	June 1, 1979
	Public Programs Grants	June 1, 1979
	Program Development	June 1, 1979
National Endowment for The Humanities	Translations	July 1, 1979
	Special Projects	June 1, 1979
National Institute of Education	Women's Educational Equity Research Grants Program	May 10, 1979
American Council of Learned Studies	Travel Grants for Humanities Conferences Between Nov. '79 and Feb. '80	July 1, 1979
Council for International Exchange of Scholars	Fulbright-Hays Award for University Teaching and Advanced Research Abroad	June 1, 1979 (Australia, New Zealand and American Republics)
		July 1, 1979 (Africa, Asia and Europe)
Center for Field Research The MacDowell Colony, Inc.	Field Research Grants	May 15, 1979
	Residencies	July 15, 1979
National Institute for Architectural Education	Fellowships and Awards	June 1, 1979
Spencer Foundation	Education Improvement Grants	June 1, 1979
Robert A. Taft Institute of Government	Robert A. Taft Institute of Government Seminars	June 1, 1979 (Letter of intent)

FOR FURTHER INFORMATION, PLEASE CONTACT THE OFFICE OF SPONSORED PROGRAMS, 123 DAY HALL, 6-5014.

Career Center Calendar

The Albany Semester Intern Program: an information session. Program provides a semester in Albany working with a state agency. Academic credit, small stipend. 1:15-3 p.m. Career Center.

Health Careers Brown Bag Session. Research Opportunities for Cornell Undergraduates. 1:25 p.m., Career Center.

April 21: Colloquium: Minorities in Law. Civil rights attorney Fred D. Gray will be the principal speaker. Sponsored by the Minorities Undergraduate Law Society. 1-5 p.m., Kaufmann Auditorium, Goldwin Smith Hall.

April 23: Health Career Brown Bag Session: You and Your AMCAS-AADSAS Application. 12:20 p.m. Career Center.

April 24: Health Careers Brown Bag Session. Repeat of 4/23 program. 12:20 p.m., Career Center.

Osteopathic Medicine: A discussion with the Director of Admissions of New York College of Osteopathy. 4:30 p.m., Career Center.

The Other Doctor. A slide and film presentation on osteopathic medicine. 8 p.m., Ives 121.

Resume Critique. 3 p.m., Career Center. Please sign up in advance.

April 25: Health Careers Brown Bag Session. Repeat of 4/23 program. 1:25 p.m. Career Center.

Settling In: New Job, New Home. 7:30 p.m., Founders Room, Anabel Taylor.

April 26: Job Hunting for Foreign Students. 7-9 p.m., Uris 202. Please sign up in advance at the Career Center or the International Students Office.

A Career as a Nurse Practitioner or a Physician's Assistant. 4:45 p.m., Career Center.

Special Seminars

Agriculture and Life Sciences

AGRICULTURAL ENGINEERING/ENVIRONMENTAL STUDIES: Sludge Processing and Management Alternatives Seminar, "Application of Sludge to New York Farmland: Environmental Factors," Bruce McDuffie, State University of New York at Binghamton, 3:30 p.m., Friday, April 20, 105 Riley-Robb Hall.

ENTOMOLOGY: "New Zealand Diptera," Roy A. Harrison, Lincoln College, Canterbury, New Zealand, 4 p.m., Monday, April 23, 100 Caldwell Hall.

EVOLUTIONARY BOTANY SOCIETY: "The Evolution of a Duplicate Gene in Diploid Clarkias," Leslie D. Gottlieb, 4:30 p.m., Monday, April 23, 404 Plant Science Building.

MATHEMATICS: "Analysis of Spatially Heterogeneous Data from Aquatic Ecosystems," Mark Leigh-Abbott, 4 p.m., Tuesday, April 24, 100 Caldwell Hall.

NATURAL RESOURCES: "The Estimation of Avian Nesting Success," Jonathan Bart, 4 p.m., Thursday, April 26, 304 Fernow Hall.

NUTRITION: "Nutrition in the Economy of Bojonegoro, East Java: Implications for Nutrition Interventions in Rural Indonesia," Mark Brooks, 4:30 p.m., Monday, April 23, 348 Morrison Hall.

POMOLOGY: "Apple See Oil—Its Physical Properties, Chemical Composition and Pomological Consequences," Matt Rogoyski, 11:15 a.m., Monday, April 23, 114 Plant Science Building.

POULTRY BIOLOGY: "Immune Involvement in Hereditary Muscular Dystrophy in Chickens," Bob Sanders, University of Texas at Austin, 4:15 p.m., Thursday, April 26, 300 Rice Hall.

RURAL SOCIOLOGY: "Agricultural Development in Rural Proletarianization in India: A District Level Analysis From 1961-1971," Douglas Barnes, 3:30 p.m., Friday, April 20, 32 Warren Hall.

RURAL SOCIOLOGY: "Migrant Labor in Western New York, 1978," Bruce John and Ruth Young, 4 p.m., Monday, April 23, 32 Warren Hall.

VEGETABLE CROPS: "Study of Critical Temperatures in Muskmelons and Watermelons," Richard Hassell, 4:30 p.m., Thursday, April 19, 404 Plant Science Building.

Arts and Sciences

ANTHROPOLOGY: "Participation-Observation Fieldwork and Its Role in The Applied Anthropology on One's Life," Philip Snyder, 4:30 p.m., Wednesday, April 25, 305 McGraw Hall.

GENERAL CHEMISTRY: "Chemistry Without Solvents: Properties and Reactions of Metal Ions and Their Complexes in the Gas Phase by Ion Cyclotron Resonance Spectroscopy," Jesse L. Beauchamp, California Institute of Technology, 4:40 p.m., Thursday, April 26, 119 Baker Laboratory.

ORGANIC/INORGANIC CHEMISTRY: "Stereochemical Course of Enzymatic Reactions at Phosphorus," Perry A. Frey, Ohio State University, 8:15 p.m., Monday, April 23, 119 Baker Laboratory.

PSYCHOLOGY: "Vulnerability to Schizophrenia," John Neale, State University of New York at Stony Brook, 3:30 p.m., Friday, April 20, 202 Uris Hall.

Biological Sciences

BIOCHEMISTRY: "The Repair of Uracil-Containing DNA in E. coli," Bernard Weiss, The Johns Hopkins University, 4:30 p.m., Friday, April 20, 204 Stocking Hall.

ECOLOGY AND SYSTEMATICS: Title to be announced, Timothy Parsons, University of British Columbia, 4:30 p.m., Wednesday, April 25, Langmuir Penthouse.

MARINE BIOLOGY: "Why Fish Flash," Edward Brothers, 4:45 p.m., Tuesday, April 24, G-1 Stimson Hall.

NEUROBIOLOGY: "Early Events in Nerve Muscle Synapse Formation: Regulation of ACh Receptor and AChE," Gerald Fischbach, Harvard University School of Medicine, 4:15 p.m., Tuesday, April 24, 100 Savage Hall.

NEUROBIOLOGY AND BEHAVIOR: "Sexual Selection in Field and House Crickets," Bill Cade, Brock University, 12:30 p.m., Thursday, April 26, Langmuir Penthouse.

PLANT PHYSIOLOGY: "Subunit Interactions in the Assembly of Ribulase Bisphosphate Carboxylase," Harry Roy, Rensselaer Polytechnic Institute, 11:15 a.m., Friday, April 20, 404 Plant Science.

Engineering

CHEMICAL ENGINEERING: "Ultra High-Strength/High Modulus Fibers From Rigid and Semi-Rigid Polymers," Jack Preston, 4:15 p.m., Monday, April 23, 145 Olin Hall.

MATERIALS SCIENCE AND ENGINEERING: "Atomic Structure of Grain Boundaries in Metals," V. Vitek, University of Pennsylvania, 4:30 p.m., Thursday, April 26, 140 Bard Hall.

MECHANICAL AND AEROSPACE ENGINEERING: "Three-Dimensional Swirling Flows in Turbomachinery," Edward M. Greitzer, Massachusetts Institute of Technology, 4:30 p.m., Monday, April 23, 282 Grumman Hall.

MECHANICAL AND AEROSPACE ENGINEERING: "High Frequency Curing of Thermoset Composites," R. E. Haven, Massachusetts Institute of Technology, 4:30 p.m., Tuesday, April 24, 282 Grumman Hall.

THEORETICAL AND APPLIED MECHANICS: "Tidal Deformation of a Viscoelastic Body," Bill VanArsdale, 4:30 p.m., Wednesday, April 25, 205 Thurston Hall.

Residence Life

"E.S.P.: Some Questions and Observations," Daryl Bem, 8 p.m., Wednesday, April 25, Formal Lounge, Mary Donlon Hall.

Statistics

"On Sequential Rank Tests in the Correlation Case," H. Witting, Institut für Mathematische Stochastik, der Albert-Ludwigs-Universität, Freiburg, West Germany, 3 p.m., Monday, April 23, G-14 Uris Hall.

"Exchangeability and Sufficiency," Persi W. Diaconis, Bell Laboratories and Stanford University, 3:15 p.m., Wednesday, April 25, G-14 Uris Hall.

Veterinary Medicine

VETERINARY MICROBIOLOGY: "The Natural History of Rabies: Current Research and Developments," George M. Baer, Chief Epidemiologist, CDC, Lawrenceville, Ga., 4:30 p.m., G-3 Vet Research Tower.

Graduate Bulletin

DO IT NOW. Corrections in course registration for spring semester, 1979 may still be made (with \$10 late processing fee) through Friday, May 11.

NON-CREDIT GRADUATE REGISTRATION forms for summer, are available in the Graduate School office. NCGR registration is to be used only by those persons who have been registered as full-time students at Cornell during one or both terms of the preceding academic year and who do not wish residence credit but wish to be registered informally for the purpose of loans, scholarships, fellowships or proof of registration to outside agencies. Registration must be in person at

the Graduate School office, Sage Graduate Center. Registration begins May 24 (early certification is possible for those who need it for the Financial Aids office in Day Hall.)

Reminder: Students who have not yet completed requirements for an advanced degree but who expect to complete requirements by the May 19 deadline should fill out the "Provisional Commencement List" form and return it to the Graduate School Office by April 30. The deadline for meeting all requirements for graduation is May 18, 1979.

Doctoral candidates who expect to receive their Ph.D. degree (or who received a degree in August or January) are asked to

notify the Graduate School if they plan to take part in the Commencement procession. Full information on the May Commencement is now available at the Graduate School.

Reminder: Completed applications for Graduate Summer School Tuition Awards (including Special Committee chairperson's endorsement) must be submitted to the Graduate Fellowship Office, 116 Sage Graduate Center, by April 23.

Successful candidates for Graduate Summer Fellowships and Graduate Summer School Tuition Awards should be notified by mail by the second week of May.

Calendar

Continued from Page 12

Pellman conducting. Works of Sousa, Elgar, Beethoven, RimskyKorsakov, Hummel, others. Straight Memorial Room.

9 p.m. *Cornell Cinema presents "Privilege." Film Club members only. Uris Hall Auditorium.

Tuesday, April 24

12 noon. Cornell Women's Caucus. All women encouraged to attend. Ives 212.

12:15 p.m. Catholic Eucharist. All welcome. Anabel Taylor G-19.

12:30-4:30 p.m. Writing Center's Walk-In Service. Rockefeller 302.

4:15 p.m. Food Science and Agricultural Engineering Seminar: "Extruders and Extruded Food Analogs." Gary Johnston, Vice President for Engineering, Wenger Manufacturing Company, Kansas City, KS. Stocking Hall Auditorium.

4:30 p.m. Renaissance Colloquium: "Elegy and Praise in Milton's Arcades and Lycidas." Ian Scott, English. Goldwin Smith 160.

4:30 p.m. Geological Sciences Seminar: "Alternative Strategies for Nuclear Waste Disposal." Jack Bird, Cornell. Thurston 205.

5 p.m. Southeast Asia Free Film Series: "Islamic Mysticism: The Sufi Way." Morrill 106.

5 p.m. Cornell Karate Club (Shotokan) beginners class. All welcome. Martha Van Rensselaer Auditorium.

6 p.m.-midnight. Writing Center's Walk-In Service. Rockefeller 302.

7:30 p.m. Folk dancing for couples. Singles, beginners, all ages welcome. Martha Van Rensselaer Auditorium.

8 p.m. The Literature Club presents "Henry James's 'Admirable Nightmare' and 'The Jolly Corner': The Problem of Psychobiographic Interpretation." S. Cushing Strout, Jr., English, Cornell. A.D. White House.

8 p.m. Architecture College Spring Lecture Series, Michael Dennis. Franklin 115.

8 p.m. *Cornell Cinema presents "The Loved One." Guest speaker: William Collins. Kaleidoscope Series. Uris Hall Auditorium.

Wednesday, April 25

12:15 p.m. Catholic Eucharist. All welcome. Anabel Taylor G-19.

12:20 p.m. The Biology Center Lecture Series: "DNA Replication in E.Coli." Bic Type, Biochemistry. Biology Center Stimson G-20.

12:30 p.m. Lutheran Eucharist Service. Anabel Taylor G-15.

12:30-4:30 p.m. Writing Center's Walk-In Service. Rockefeller 302.

4:15 p.m. Society for the Humanities Lecture: "A CrossCultural Perspective on Food." Mary Douglas, Director for Research on Culture, Russell Sage Foundation. Goldwin Smith Hollis Cornell Auditorium.

4:15 p.m. China Japan Program presents Japanese Free Film Series: "The Flavor of Green Tea Over Rice" (Ozu, 1953). Uris Hall Auditorium.

4:30 p.m. Biological Sciences Seminar: "Rhodopsin A Membrane Protein of Unknown Function." Sandy Ostroy, Biological Sciences, Purdue University. Clark 700.

5 p.m. Wilderness Reflections meeting. Straight Loft 3.

6 p.m.-midnight. Writing Center's Walk-In Service. Rockefeller 302.

7 p.m. Cornell Karate Club (Shotokan) beginners class. All welcome. Martha Van Rensselaer Auditorium.

7 p.m. Herbert F. Johnson Museum Free Films: "Artist's Proof;" "The Sword and the Flute;" "Kay Sage." Herbert F. Johnson Museum.

7:15 p.m. Cornell Bridge Club meeting. Hughes Hall Dining.

7:30 p.m. America and World Community: "Portents of Aquarius." Robert Palmer, Music. Anabel Taylor One World Room.

7:30 p.m. International Folk Dancing. All welcome. Straight Memorial Room.

8 p.m. Department of Romance Studies Lecture: "The Feminine Theatre in Spanish America." (in Spanish), Giselda Gambaro, Argentinian dramatist. Goldwin Smith 183.

8 p.m. *Cornell Cinema present "Wild Strawberries." Masters of Film Style. Subscription. Uris Hall Auditorium.

8:15 p.m. Cornell India Association Free Concert of Indian Street Music by Baul Singers of Bengal. Goldwin Smith Kaufmann Auditorium.

8:15 p.m. *Department of Theatre Arts presents "Hamlet." Straight Theatre.

Thursday, April 26

7:30 a.m. Disarmament Study Group breakfast and discussion. All welcome. For more information contact main desk, Anabel Taylor. Anabel Taylor main desk.

9-10:30 a.m. Professional Development Seminar for All University Student Services Staff: "Married Students at Cornell," Sandra Stein, Frances Doney and Deborah Cohen, Dean of Students Office, and Vivian Geller, Continuing Education. "The Work of an Academic Dean." Robert McKersie, Industrial and Labor Relations. Straight Elmhirst Room.

12:15 p.m. Catholic Eucharist. All welcome. Anabel Taylor G-19.

12:30-4:30 p.m. Writing Center's Walk-In Service. Rockefeller 302.

2:30 p.m. Society for the Humanities Seminar: "Evans-Pritchard and the Sociology of Knowledge." Mary Douglas,

director for Research on Culture Russell Sage Foundation. A.D. White Center for the Humanities.

3 p.m. Alternative Library Tape of the Week: "Rolling Thunder Speaks." Part 1. Rolling Thunder, Native American holy man, speaking at the World Symposium. Discussion to follow. Anabel Taylor 122.

4 p.m. Italian Club Lecture: "The Italianization of Spanish Culture in the Renaissance, Ciriaco M. Arroyo, Emerson Hinchliff Professor of Spanish Literature, Cornell. Andrew D. White House 110.

4 p.m. China-Japan Program and Western Societies Program Lecture: "Comparison of Japanese and American Newspapers," Hiroshi Ishihara, The New York Yomiui Shinbun, and Vice-Chief of the Foreign News Department, The Yomiuri Shinbun (Toyko). Morrill 106.

4 p.m. Cornell Men's JV Baseball-Ithaca College. Hoy Field.

4 p.m. Women's Studies Graduate/Faculty Colloquium: "Women's Public and Private Roles: Achievement Over the Life Course," Barbara Richardson, HDFS. Colloquium has been cancelled.

4:30 p.m. Microbiology Seminar: "Bacteriophage Sp b of Bacillus subtilis." Stanley A. Zahler, Cornell. Stocking 124.

4:30 p.m. Department of Geological Sciences Seminar: "Conductivity Studies of the Earth's Crust." Tony Nekut, Cornell. Thurston 205.

4:45 p.m. Cornell Campus Council meeting. Clark 701.

6 p.m.-midnight. Writing Center's Walk-In Service. Rockefeller 302.

7 p.m. Cornell Karate Club (Shotokan) beginners class. All welcome. Martha Van Rensselaer Auditorium.

7 p.m. The Christian Science Organization welcomes students, staff and campus visitors to the weekly readings and testimonies meeting. Anabel Taylor Founders Room.

7:30 p.m. Twig Bible Fellowship sponsored by The Way of Cornell. Balch Unit 2 study lounge.

7:30 p.m. Morris Dance Practice sponsored by Cornell Contra Dance Club. Morris Dance teams for beginning and experienced dancers. Martha Van Rensselaer NG-35.

8 p.m. Finger Lakes Group of the Sierra Club present "Changing Patterns of People on Land and Effects on Agriculture." Howard E. Conklin, Agricultural Economics. ides from Straight at 7:30 p.m. Langmuir Lab.

8 p.m. China-Japan Program and Council of the Creative and Performing Arts Lecture and Film: "Blind Swordsman," John Nathan. Goldwin Smith Hollis E. Cornell Auditorium.

8 p.m. *Cornell Cinema presents "The Bounty Hunter." Festival of New Cuban Cinema. Co-sponsored by CUSLAR and Third World Board. Uris Hall Auditorium.

8 p.m. University Lecture Committee and the Department of Vegetable Crops Lecture: "The Merging of Biology and Technology: A New Alchemy." Earle Barnhard, Director of Agricultural Forestry, Warren 401.

8:15 p.m. Plant Pathology Colloquium: "Functions of the American Type Culture Collection," Richard Donovick, director, American Type Culture Collection, Rockville, MD. Plant Science 404.

8:15 p.m. *Department of Theatre Arts presents "Hamlet." Straight Theatre.

8:15 p.m. *Department of Theatre Arts presents "Poor Murderer." Lincoln Drummond Studio.

8:15 p.m. *Faculty Committee on Music Concert: "Cleveland Quartet." Works of Mendelssohn, Bartok, Brahms. Statler Auditorium.

Friday, April 27

8 a.m.-4 p.m. Extramural Courses-last day to withdraw. Day 105.

10:30 a.m.-4:30 p.m. Writing Center's Walk-In Service. Rockefeller 302.

12:15 p.m. Catholic Eucharist. All welcome. Anabel Taylor G-19.

12:15 p.m. Women's Studies Seminar: "Who Gets the Children? The Rights of Divorced Fathers and Mothers." Richard Stumbar, Attorney at Law, Ithaca. I&LR Conference Center 105.

1 p.m. SALAT-AL-JUMA (Friday prayer for Muslims). Anabel Taylor Edwards Room.

1:30 p.m. La Tierra Verde Collective of CRE-Alternative Agriculture Working Group meeting. Warren 32.

4 p.m. China-Japan Program and Council of the Creative and Performing Arts Lecture and film: "Farm Song." John Nathan. Uris Hall Auditorium.

4 p.m. Cornell Men's Varsity Baseball-Siena. Hoy Field.

4 p.m. Society for the Humanities Colloquium: "The Dutch and Portuguese Burghers of Ceylon," Dennis McGilvray, Mellon Fellow, Cornell University. Cultural Impact: East meets West Series. Andrew D. White Center for the Humanities.

4 p.m. Department of Theatre Arts Lecture: "Hamlet: Italian Style." Marvin Carlson, Theatre Arts, Cornell. Goldwin Smith Kaufmann Auditorium.

5 p.m. Cornell Karate Club (Shotokan) beginners class. All welcome. Martha Van Rensselaer Auditorium.

7 & 10:15 p.m. *Cornell Cinema presents "Camelot." Statler Auditorium.

7:30 p.m. Pentangle II Free Film Series: "Playtime" (Tati, 1972, U.S.); short: "In Plain Sight" (Aaron, 1977, U.S.). Uris Hall Auditorium.

7:30 p.m. Inductive Bible Study in John's Gospel. All welcome. Sponsored by Cornell Bible Applications Group. Noyes Center 304.

7:30 p.m. Cornell Christian Fellowship meeting for singing, teaching and prayer. Morrill 106.

7:30 p.m. Islam and Muslims, sponsored by Muslim Educational and Cultural Association. Anabel Taylor 314.

8:15 p.m. Department of Music presents "An Evening of Schubert Opera." Soloists, orchestra and chorus of the Cornell Schubert Society directed by Roland Vasquez. Barnes Auditorium.

8:15 p.m. *Department of Theatre Arts presents "Hamlet." Straight Theatre.

8:15 p.m. *Department of Theatre Arts presents "Poor Murderer." Lincoln Drummond Studio.

9:45 p.m. *Cornell Cinema presents "A Special Day." Uris Hall Auditorium.

12 midnight. *Cornell Cinema presents "Female Trouble." Uris Hall Auditorium.

Saturday, April 28

10 a.m. Cornell Women's Varsity Crew-Ithaca College. Flood Control Channel.

10 a.m. Cornell Men's Varsity "B" Lacrosse-Nassau Community College. Schoellkopf Field.

1 p.m. Cornell Men's Varsity Baseball-Army (2). Hoy Field.

2 p.m. Cornell Men's Varsity Tennis-Army. Cascadilla Courts.

2 p.m. *Cornell Men's Varsity Lacrosse-Rutgers. Schoellkopf Field.

4:30 p.m. Catholic Sacrament of Reconciliation. Anabel Taylor G-24.

5:15 p.m. Catholic Eucharist. All welcome. Anabel Taylor Auditorium.

7 & 10:15 p.m. *Cornell Cinema presents "Camelot." Statler Auditorium.

7:30 & 9:45 p.m. *Cornell Cinema presents "A Special Day." Uris Hall Auditorium.

8 p.m. Risley Free Film Series: "The Lady Vanishes." Risley Theatre.

8:15 p.m. *Department of Music Benefit Concert. Susan Davenney Wyner, soprano, and Yehudi Wyner, pianist. Music of Mozart, Purcell, Schubert, Stravinsky, Nin, Gershwin. Friends of Music benefit concert. Tickets on sale at Lincoln Hall Ticket Office or at the door. Barnes Auditorium.

8:15 p.m. *Cornell Dance Series presents performance by Laura Dean Dancers and Musicians. This event is made possible in part with public funds from the New York State Council on the Arts. Tickets on sale at Nippenose and at the door. Helen Newman Hall.

8:15 p.m. *Department of Theatre Arts presents "Rosen-crantz and Guildenstern are Dead." Straight Theatre.

8:15 p.m. *Department of Theatre Arts presents "Poor Murderer." Lincoln Drummond Studio.

8:30-11:30 p.m. *Sierra Club presents square dance with Jean Alve calling. Straight Memorial Room.

12 midnight. *Cornell Cinema presents "Female Trouble." Uris Hall Auditorium.

Sunday, April 29

9:30, 11 a.m. & 5 p.m. Catholic Eucharist. All welcome. Anabel Taylor Auditorium.

9:30 a.m. Episcopal Eucharist Worship Service. Faculty, Staff, and families welcome. Church School and nursery care. Coffee hour following service in Founders Room. Anabel Taylor Chapel.

10 a.m. Ithaca Society of Friends (Quakers). Discussion and First Day School. Babysitting provided. Anabel Taylor Forum.

10:45 a.m. The Lutheran Church Worship Service. Nursery care provided. Coffee hour following the service. Church school prior to service at 9:30 a.m. 109 Oak Avenue.

11 a.m. Ithaca Society of Friends (Quakers). Meeting for worship. Anabel Taylor Forum.

11 a.m. Sage Chapel Convocation: Richard K. McGee, Medical Services Division, TVA, Signal Mountain, TN; author of "Crisis Intervention in the Community."

11 a.m.-11 p.m. Feminist Alliance and Women's Center present "Ithaca Spring Women's Festival." Straight Memorial Room.

11:15 a.m. Protestant Church at Cornell. Anabel Taylor Chapel.

12:30-4:30 p.m. Writing Center's Walk-In Service. Rockefeller 302.

2 p.m. Cornell University Air Force, Army, and Navy ROTC Units will hold a Tri-Service Awards Ceremony. The purpose of the ceremony is to recognize those students who have demonstrated superior performance in both academic and leadership areas. Schoellkopf.

2 p.m. Korean Church at Cornell, Young M. Paik, Pastor. Anabel Taylor Chapel.

6 p.m.-midnight. Writing Center's Walk-In Service. Rockefeller 302.

7:30-11 p.m. International Folk Dancing. All welcome. Straight North Room.

8 p.m. *Cornell Cinema presents "Pink Splash Production." A new French animation. Uris Hall Auditorium.

Exhibits

Uris Library: Hamlet Exhibit, through April 27.

Olin Library: "American Association of University Presses, Prize Books," through April 22.

Herbert F. Johnson Museum: "Labyrinth for Dogon," through May 20; "Sekino: 53 Stations of the Tokaido," through May 13; "The Classical Tradition in Rajput Paintings," through May 20; "New York Collection for Stockholm" through May 21; "Translations: Photographic Images With New Forms," through May 25; "Permanent Collection," through May 15.

Calendar

April 19-29

All items for the Chronicle Calendar must be submitted by mail or in person to Fran Apgar, Office of Central Reservations, 32 Willard Straight Hall, at least 10 (ten) days prior to publication of the Chronicle.

* Admission charged

Attendance at all events is limited to the approved seating capacity of the hall

Thursday, April 19

7:30 a.m. Disarmament Study Group breakfast and discussion. All welcome. For more information contact Anabel Taylor main desk.

8 a.m. Wildflower walk with Kevin Shank, sponsored by Ecology House and Cornell Plantations. Meet at Dairy Bar parking lot.

8:30-9:30 a.m. HANDIVAN, a rolling classroom to teach home owners and apartment dwellers home maintenance skills in New York City, designed and outfitted by College of Human Ecology faculty, will be open to the campus community. In front of Bailey Hall.

9:30-11 a.m. HANDIVAN, a rolling classroom to teach home owners and apartment dwellers home maintenance skills in New York City, designed and outfitted by College of Human Ecology faculty, will be open to the campus community. In front of Willard Straight Hall.

10 a.m. Passover Services. Anabel Taylor Edwards Room.

12 noon. Ecology House and Dartmouth Outward Bound Seminar: "Use of the Outdoors as an Educational Tool." Straight Loft 2.

12:15 p.m. Catholic Eucharist. Anabel Taylor G-19.

12:15 p.m. Community Workshop: "Community as an Agent of Social Change," sponsored by Ecology House and Ecology Task Force. Straight North Room.

12:30-4:30 p.m. Writing Center's Walk-In Service. Rockefeller 302.

1-4 p.m. Ecology House and Wilderness Reflections present "Search and Rescue Techniques in N.Y.S.," Wilbur Peters, N.Y.S. D.E.C. Meet outside Dairy Bar.

1-5 p.m. Ecology House presents "Trail Maintenance: What to Do and How to Do it," Connie Thomas, Sierra Club. Meet at Ecology House.

2 p.m. Ecology House presents "Managin the Adirondacks Forest Preserve: Responsibility to Tradition and the Future," Dick Booth, C.R.P. Anabel Taylor Founders Room.

3 p.m. Alternative Library "Tape of the Week." Mother Teresa and Brother David: "Interview - Part II" and discussion. All welcome. Anabel Taylor 122.

4 p.m. Society for the Humanities Colloquium: "Voltaire and East Asia," Allan G. Grapard, Asian Studies, Cornell. Andrew D. White House.

4 p.m. Western Societies Prgram Visitor: "Reequilibrium of the French Left: Socialism Between Third Force and Third Way," Gianfranco Pasquino, University of Bologna. Uris Hall 153.

4 p.m. Cornell Cinema and Psychology Department present "Hearts and Minds". Documentary. Free. Goldwin Smith Hollis E. Cornell Auditorium.

4 p.m. Cornell Men's JV Baseball-Cortland. Hoy Field.

4:30 p.m. Microbiolo9y Seminar: "Hepatitis B Virus: The In vitro Connection, David Alden, Wistar Institute, Philadelphia, PA. Stocking 124.

4:30 p.m. Astronomy and Space Sciences Colloquium: "Planetesimals to Planets," W.M. Kaula, Center for Astrophysics, Harvard. Space Sciences 105.

4:30 p.m. Geological Sciences Seminar: "Structural Evolution of S.E. Canadian Cordillera, Raymond Price, Queens University. Thurston 205.

4:30 p.m. Messenger Lecture Series: "The Construction of the Mind": "Embodiments of Mind: The Construction of Intelligence," Marvin Minsky, Donner Professor of Science, Massachusetts Institute of Technology. Uris Hall Auditorium

5:15 p.m. Catholic Eucharist. All welcome. Anabel Taylr G-19.

6 p.m. "Sunset Walk" with Marc Breslav. Sponsored by Ecology House and Cornell Plantations. Meet at main entrance to Mann Library.

6 p.m.-midnight. Writing Center's Walk-In Service. Rockefeller 302.

7 p.m. Cornell Karate Club (Shotokan) beginners class. All welcome. Martha Van Rensselaer Auditorium.

7 p.m. The Christian Science Organization welcomes students, staff and campus visitors to the weekly readings and testimonies meeting. Anabel Taylor Founders Room.

7:30 p.m. Twig Bible Fellowship sponsored by The Way of Cornell. Balch Unit 2 study lounge.

7:30 p.m. Morris Dance Practice sponsored by Cornell Contra Dance Club. Morris Dance teams for beginning and experienced dancers. Martha Van Rensselaer NG-35.

7:30 p.m. Willard Straight Hall Board and Office of Minority Educational Affairs (COSEP) present "The 1969 Willard Straight Hall Takeover: Race Relations in Higher Education, Then and Now," moderated by Darwin P. Williams. Guest speakers: Andre McLaughlin, Professor, Sociology, Medgar Evans Univesity (Participant in 1969 takeover); Robert D. Miller, Professor, Agronomy, Dean of the Faculty, 1967-71; James E. Turner, Director and Associate Professor, Africana Studies and Research Center. Keynote speaker: Charles Martin, Professor of Education, Howard University, Editor, Journal of Negro Education. Straight Memorial Room.

8 p.m. Poetry reading by Diane Ackerman, member of Cornell English Departemt. Goldwin Smith Temple of Zeus.

8:15 p.m. *Risley Theatre's production of the musical "Godspell." Tickets available at Straight Ticket Office and at the door. Risley Theatre.

8:15 p.m. *Department of Theatre Arts presents "Rosen-crantz and Guildenstern are Dead." Straight Theatre.

8:15 p.m. *Department of Theatre Arts presents "Poor Murderer." Lincoln Drummond Studio.

Friday, April 20

8 a.m. Bird Walk with Marc Breslav, sponsored by Ecology House and Cornell Plantations. Meet at entrance to Pancake House.

9 a.m. First day of two day conference: "Infinity Continuity, and Indisibility in Antiquity and the Middle Ages," Norman Kretzmann, Bichard Sorabji and Edith Sylla, featured speakers. Andrew D. White Center for the Humanities.

10 a.m.-4 p.m. "Earthday," sponsored by Ecology House. Displays, exhibits, music, refreshments, slide show. Straight Memorial Room.

10:30 a.m.-4:30 p.m. Writing Center's Walk-In Service. Rockefeller 302.

12:15 p.m. Catholic Eucharist. All welcome. Anabel Taylor G-19.

12:15 p.m. Women's Studies Friday Seminar: "The State and the Family: A Discussion of Patriarchy and Capitalism," Zillah Eisenstein, Politics, Ithaca College. Ives 117.

1 p.m. SALAT-AL-JUMA (Friday prayer for Muslims). Anabel Taylor Edwards Room.

1:30 p.m. La Tierra Verde Collective of CRE-Alternative Agriculture working group meeting after Alternative Agriculture Seminar. Warren 32.

2:30 p.m. Sloan Colloquium: Harry Schwartz, editorial board of the New York Times, and author of "The Case for American Medicine," will speak on current issues in health. Sponsored by Sloan Program in Hospital and Health Services Administration. Malott 253.

2:30 p.m. Muslim Educational and Cultural Association and the Africana Studies and Research Center Lecture Series on Islam: "The Islamic State," Zafar Sayeed, Children's Education Program, NYC. Uris Hall G-92.

4 p.m. Department of Theatre Arts Lecture: "Acting and Action in Hamlet," Michael Goldman, Princeton University. Goldwin Smith Kaufmann Auditorium.

4 p.m. Cornell Men's "B" Lacrosse-Suffolk Community College, Schoellkopf.

4 p.m. Public Lecture: "Science, Politics and Society: The Case of the French Revolution," Jacques Roger, The Sorbonne, Paris, and A.D. White Professor-at-Large. Malott 251.

4:15 p.m. Coalition for the Right to Eat general meeting/study group. Anabel Taylor Forum.

5 p.m. Cornell Karate Club (Shotokan) beginners class. All welcome. Martha Van Rensselaer Auditorium.

6 p.m. Shabbat Services (Conservative). Anabel Taylor Founders Room.

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

7-10 p.m. *Kripalu Yoga Workshop: "Healing Yourself Through Yoga." Sponsored by CRESP and IRIM. For more information, call 256-4214. Anabel Taylor Hall.

7:30 p.m. Jordani Natural History Society Lecture. John Heiser will discuss his research on coral reef fishes. Stimson G-1.

7:30 p.m. Inductive Bible Study in John's Gospel. All welcome. Sponsored by Cornell Bible Applications Group. Noyes Center 304.

7:30 p.m. Cornell Christian Fellowship meeting for singing, prayer and teaching. Morrill 106.

7:30 p.m. Islam and Muslims sponsored by Muslim Educational and Cultural Association. Anabel Taylor 314.

7:30 p.m. Pentangle II Free Film Series: "Wavelength" (Snow, 1967, U.S.); "Izy Boukir" (Graves, 1970, U.S.); short: "Pasadena Freeway Stills" (Beydler, 1974, U.S.). Uris Hall Auditorium.

8 p.m. Chinese Bible Study Group Coffeehouse. Balch Unit 1 lounge.

8 p.m. Classics Department Playreading of Sophocles' "Philoctetes." Goldwin Smith Temple of Zeus.

8:15 p.m. Scriabin: a multi-media presentation synthesis of piano music, dance, poetry, and color projection. Edith Finton Rieber, pianist. Bailey Hall.

8:15 p.m. Department of Music Fsstival Week-Contemporary Music. Lecture by Elie Siegmeister. Discussion of his works and curren directions in new music. Barnes Auditorium.

8:15 p.m. *Department of Theatre Arts presents "Hamlet." Straight Theatre.

8:15 p.m. *Department of Theatre Arts presents "Poor Murderer." Lincoln Drummond Studio.

8:15 p.m. *Risley Theatre's production of the musical: "Godspell." Tickets available at Straight Ticket Office or at the door. Risley Theatre.

8:30 p.m. Poetry reading by Rory Holscher, Nancy Lee Couto, Cecil Gišcombe, Sherley Williams, David Burak, and others. Anabel Taylor Commons Coffeehouse.

9 p.m. Noyes Center Program Board presents Cornell Jazz Ensemble "Spotlite." Noyes-Center 2nd floor lounge.

9:30 p.m. *Cornell Cinema presents "Martin." Uris Hall Auditorium.

11:30 p.m. *Cornell Cinema presents "Greaser's Palace." Uris Hall Auditorium.

Saturday, April 21

9 a.m. The Society for the Humanities 2nd day Conference on the theme of "Infinity, Continuity, and Indivisibility in Antiquity and the Middle Ages," Norman Kretzmann, Richard Sorabji and Edith Sylla are featured speakers. Andrew D. White Center for the Humanities.

9 a.m.-5 p.m. *Kripaly Yoga Workshop: "Healing Yourself Through Yoga." Sponsored by CRESP and IRIM. For more information, call 256-4214. Anabel Taylor Hall.

9:30 a.m. Shabbat Services (Orthodox). Anabel Taylor Edwards Room.

10 a.m. Shabbat Services (Conservative). Anabel Taylor Founders Room.

11:30 a.m. Cornell Women's Rugby Club-Penn State. Upper Alumni Field.

12 noon. *Cornell Men's Varsity Lacrosse-Pennsylvania. Schoellkopf.

12:30 p.m. Cornell Rugby-Football Club-Guelph. Upper Alumni Field.

1 p.m. Cornell Men's Lightweight Crew-RutgersPrinceton. Platt Cup. Flood Control Channel.

4 p.m. Cornell Men's Varsity Outdoor Track-Pennsylvania. Schoellkopf.

4:30 p.m. Catholic Sacrament of Reconciliation. Anabel Taylor G-24.

5:15 p.m. Catholic Eucharist. All welcome. Anabel Taylor Auditorium.

7:30 & 9:30 p.m. *Cornell Cinema presents "Martin." Uris Hall Auditorium.

8 p.m. Department of Astronomy Lecture: "Voyage 1: Exploration of Jupiter," Carl Sagan, David Duncan Professor of Astronomy and Space Sciences. Bailey Auditorium.

8 p.m. Risley Free Film Series presents "The Country Girl." Risley College.

8:15 p.m. Department of Music presents Alan Mandel, pianist. Works of Siegmeister, Palmer, Ives. Barnes Auditorium.

8:15 p.m. *Risley Theatre's production of the musical: "Godspell." Tickets available at Straight Ticket Office or at the door. Risley Theatre.

8:15 p.m. *Department of Theatre Arts presents "Rosen-crantz and Guildenstern are Dead." Straight Theatre.

8:15 p.m. *Department of Theatre Arts presents "Poor Murderer." Lincoln Drummond Studio.

8:15 p.m. Cornell Polo-Lancaster. Oxley Polo Arena.

8:15 p.m. Cornell Polo-Alumni. Oxley Polo Arena.

11:30 p.m. *Cornell Cinema presents "Greaser's Palace." Uris Hall Auditorium.

Sunday, April 22

9 a.m.-12 noon. *Kripalu Yoga Workshop: "Healing Yourself Through Yoga." Sponsored by CRESP and IRIM. Anabel Taylor Hall.

9:30, 11 a.m. & 5 p.m. Catholic Eucharist. All welcome. Anabel Taylor Auditorium.

9:30 a.m. Episcopal Eucharist Worship Service. Faculty, staff, and families welcome. Church School and nursery care. Coffee hour following service in Founders Room. Anabel Taylor Chapel.

9:30 a.m.-4 p.m. Cornell Men's Heavyweight Crew. Cornell, Rutgers, Yale, Syracuse, Ithaca College, Coast Guard. Flood Control Channel.

10 a.m. Ithaca Society of Friends (Quakers). Discussion and First Day School. Babysitting provided. Anabel Taylor Forum.

10:45 a.m. The Lutheran Church Worship Service. Nursery care provided. Coffee hour following the service. Church school prior to service at 9:30 a.m. 109 Oak Avenue.

11 a.m. Ithaca Society of Friends (Quakers). Meeting for worship. Anabel Taylor Forum.

11 a.m. Sage Chapel Convocation: David Saperstein, Rabbi, Director, Religious Action Center, Union of American Hebrew Congregations, Washington, DC.

11:15 a.m. Protestant Church at Cornell. Anabel Taylor Chapel.

12 noon-4 p.m. Ecology House presents "New Games Festival." Arts Quad. In case of rain Barton 2-4 p.m.

12:30-4:30 p.m. Writing Center's Walk-In Service. Rockefeller 302.

2 p.m. Korean Church at Cornell, Young M. Paik, Pastor. Anabel Taylor Chapel.

3-6 p.m. Community Against Rape Film: "Rape Culture." Uris Hall Auditorium.

4 p.m. Department of Music Festival Week-Contemporary Music presents "New Music by Cornell Composers." Barnes Auditorium.

6 p.m.-midnight. Writing Center's Walk-In Service. Rockefeller 302.

7 p.m. *Cornell India Association presents Sitar Concert by Pandit Uma Shankar Mishra. Goldwin Smith Kaufmann Auditorium.

7:30-11 p.m. Cornell International Folkdancers. Straight Memorial Room.

8 p.m. *Cornell Cinema presents "The Kiss." Uris Hall Auditorium.

8:15 p.m. *Department of Theatre Arts presents "Hamlet." Straight Theatre.

Monday, April 23

12:15 p.m. Catholic Eucharist. All welcome. Anabel Tayor G-19.

12:20 p.m. The Biology Center Lecture Series: "Relating Structure to Function at the Vertebrate Neuromuscular Junction," M.Salpeter, Neurology. Biology Center Stimson G-20.

12:20 p.m. Department of Agricultural Engineering General Seminar: "Gne Graduate's Experience in the Federal Government," Donald E. Anderson, Food Industries Branch, Effluent Guidelines Division, Environmental Protection Agency, Washington, DC. Riley Robb 400.

12:30-4:30 p.m. Writing Center's Walk-In Service. Rockefeller 302.

3 p.m. Cornell Women's Varsity Lacrosse-St. Lawrence. Jessup Field.

4 p.m. Cornell Women's JV Lacrosse-Rochester. Jessup Field.

4 p.m. Cornell Men's Varsity Baseball-Oneonta. Hoy Field.

4:30 p.m. Council of the Creative and Performing Arts presents Ernst Neizvestny, sculptor. Informal talk with translation and slides of his work. Ives 112.

4:30 p.m. University Lecture and Society for the Humanities Lecture: "Roman Imperialism: the Greek View," Erich S. Gruen. History: Roman History, University of CA at Berkeley. Goldwin Smith Hollis E. Cornell Auditorium.

5-6 p.m. Zen Buddhist Meditation Group one hour zazen meditation. For more information call Tim at 539-7299 or Boyd at 277-0496. Anabel Taylor Edwards Room.

6 p.m.-midnight. Writing Center's Walk-In Service. Rockefeller 302.

7 p.m. Cornell Karate Club (Shotokan) beginners class. All welcome. Martha Van Rensselaer Auditorium.

7:30 p.m. Food Science 150 Seminar: "Chemicals - Good and Bad," J.M. Regenstein, Poultry Science. Uris Hall Auditorium.

7:30 p.m. America and World Community: "Portents of Aquarius," Robert Palmer, Music. Anabel Taylor One World Room.

7:45 p.m. Monday Night Ornithology Seminar. Lyman K. Stuart Observatory, 159 Sapsucker Woods Road.

8:30 p.m. *Cornell Conservative Coalition presents William F. Buckley, Jr., "Some Problems of Freedom." Bailey Auditorium.

8:45 p.m. Department of Music presents Cornell Wind Ensemble and Symphonic Band, Marice Stith and Samuel

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