



It's Prelim Time and the seriousness of the study is reflected in these faces in the main reading room of Uris Library.

## Rhodes: Add Engineering to Extension Role

*He Says Innovation Center at RPI Could Be First of Many*

Citing the need for a new partnership between industry, universities and government, Cornell President Frank Rhodes called Tuesday for the establishment of more research and extension centers — similar to the Center for Industrial Innovation at Rensselaer Polytechnic Institute and modeled after the Cooperative Extension service for agriculture — to help affirm this country's role as the technological leader in the world.

Rhodes was one of three speakers in a symposium and convocation which marked the opening of the Center for Industrial Innovation at RPI. Also speaking on the Rensselaer campus were John F. Welch, Jr., chairman and chief executive officer of General Electric Co. and Gov. Hugh L. Carey.

As the president of New York's land grant university, Rhodes recalled legislation that provided the foundation for what he termed the tremendous productivity of American agriculture.

"But the Morrill Act of 1862, the landmark legislation that provided such tremendous impetus to American agriculture, has made us the granary of the world, as to have fostered the teaching of the 'mechanic arts' as well," Rhodes said. "It is here, in promoting the mechanic arts that the Morrill Act has been less successful. For, though the land grant institutions provided instruction in engineering, they failed to receive the additional funds for research and extension, for discovery and dissemination, that were so crucial to their success in agriculture."

The Center for Industrial Innovation,

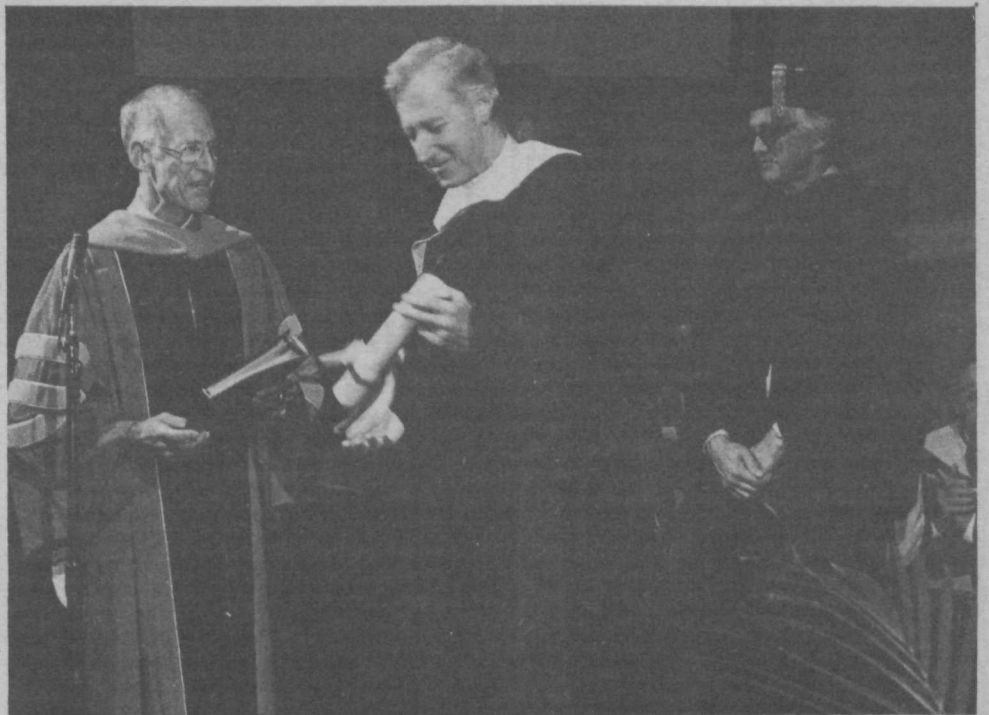
established at RPI with financial assistance from the State of New York and major corporations, will provide research capabilities and information dissemination in three areas — computer graphics, micro-processing and manufacturing technology. The center is the first of its kind in the state, the Cornell president noted, but it should not be the only one.

"We need — and need urgently — more such centers to provide applied research and to pursue its development in areas of interest to other industries," Rhodes told the symposium. "We need a network of extension agents to link the needs of other industries to the knowledge available in major research universities."

"Can we not resolve to build three or four more such centers, here in New York, linked with other industrial areas and products, models for research and extension in the mechanic arts which, invented and prospering here in New York state, will awake a slumbering nation and will inspire the federal government once again to promote a nationwide partnership that for over a century in agriculture had proved so incredibly productive?"

President Rhodes, who was awarded a doctor of humane letters degree by RPI President George M. Low, was among four convocation participants to receive honorary degrees. Also receiving honorary degrees were Gov. Hugh L. Carey; John Opel, president and chief executive officer of IBM Inc.; John F. Welch, Jr., chairman and chief executive officer of General Electric Co.

By bringing together in a single center research programs in computer graphics,



RPI President George M. Low awards an honorary degree to President Rhodes Tuesday.

manufacturing productivity and micro-electronics, Rhodes said, "RPI will be poised to make even greater contributions to these important fields of high technology. And because it will share its resources and its expertise with faculty and students

at other universities and disseminate its research results and technological information throughout the state, it is destined to become a resource of importance for all of New York."



# United Way Allocations Group Is 'Giving Back'

The United Way Allocations Committee, responsible for assessing and allocating funds to local service and community agencies, consists of "a hard-working group of people giving back," according to MaryJo Maydew, committee chairwoman and Cornell employee.

This 14-member committee meets each January to set the following year's allocations. During the winter months an intensive program includes visiting local agencies, touring agency facilities, and

learning the goals of each program.

This on-site approach combines with a needs assessment plan to provide the framework for allocation decisions. Devised three years ago to facilitate the funding process for both the Committee and the agencies, this assessment plan serves as a guideline for the yearly funding increases and decreases per program. Allocation decisions are usually based on each agency's prior yearly allocations, with

the assessment plan used as a leverage tool.

The assessment plan is a series of service profiles distributed to a select group of diverse community people, ranging from service providers, to service recipients to students. People taking this survey are asked to rank on a five point scale their level of need for each particular service.

Revisions to this survey are done every three years in an effort to improve its effectiveness. "Perceived needs change, services change, and therefore it is necessary to reassess what the community needs are," Maydew explained.

The committee is comprised of "volunteers who are aware of the time commitment to be made and preparation that needs to be done," Maydew said. An informal nomination process basically consists of recommendations by other United Way workers of those who would do well on the committee.

During May and June, final allocation decisions are made based on a cumulative

review of the assessment plan, program visits, and past allocations. At this time agencies are still permitted to discuss anything they feel is important before the committee prepares the final budget allocations.

While the program is highly intensive during the winter and spring months, more free time during the fall and summer months allows the Allocations Committee along with other United Way volunteers time to meet directly with the agencies to assist with any funding or management problems. As funding becomes tighter and tighter, Maydew explained, the need for improved and efficient management and administration skills becomes increasingly more important. This monitoring role is provided throughout the year.

Maydew, active in the United Way for the past two and a half years, started as divisional chairwoman and was subsequently nominated for allocations committee chairwoman last year. She is assistant to the controller in Day Hall at Cornell.

## Corson Chairs National Panel, Reports on Research 'Leaks'

Cornell President Emeritus Dale R. Corson has issued a report as chairman of a panel of experts appointed by the National Academy of Sciences that there has been "substantial and serious" leakage of American technology to the Soviet Union.

That leakage included a "significant portion" that is "damaging to the national security," the panel said.

In the New York Times of Oct. 1, it was reported the panel found that open scientific communications and exchanges, particularly the activities of universities, played "a very small part" in that leakage.

The Times said it also warned that government efforts to clamp down on the free flow of scientific information "could be extremely damaging to overall scientific

and economic advance as well as to military progress."

Corson is quoted by the Times as having told a news conference that the damaging transfers have occurred through legal sales of products to the Soviet Union in periods of detente, through illegal sales of proscribed products, through transfers of American technology to the Soviet Union by third world countries and through "a highly organized espionage operation."

(A future issue of Cornell Chronicle will carry a more detailed story on Cornell's participation in this national study, particularly as it relates to the work of a campus committee which addressed the implications of national policy at major research universities.)

## Exxon's Garvin to Talk Today

Have the country's economic analysts painted an inaccurate picture of where the United States is headed?

The chief executive officer of Exxon Corp. will address that question and more in his talk, "Getting Past the Future," at 4:45 p.m. today in Uris Auditorium.

Clifton C. Garvin Jr., head of the world's largest industrial corporation since 1975, will appear at Cornell as a Hatfield Fellow.

He plans to examine current economic analyses and offer his assessment of future opportunities for economic advancement.

Garvin, who has been described as "an absolute realist," is expected to look objectively at the prospects for young people in the private and public sectors.

The Hatfield Fellow program, created two years ago by the Continental Group Foundation to honor Robert S. Hatfield, retiring chief executive officer and Cornell alumnus, annually brings distinguished national business leaders to campus to deliver a public address and meet informally with students and faculty.

## World Food Day Saturday

A symposium with speakers from Nigeria, Guatemala and Sri Lanka is planned for 9 a.m. Saturday, Oct. 16, in 135 Emerson Hall to mark World Food Day at Cornell. The panel discussion, which is co-sponsored by the Center for the Analysis of World Food Issues, the Program in International Agriculture and the Rural Development Committee, is one of the meetings and exhibitions scheduled in approximately 150 nations by governments, organizations, universities and concerned individuals.

Panelists at the Cornell symposium will be Bede Okigbo, associate director of the International Institute for Tropical Agriculture in Nigeria; Yasasisi Gunawardane, an additional director for planning in Sri Lanka and a Hubert H. Humphrey Fellow at Cornell; and Dr. Juan Aguilar, a physician from Guatemala who is completing his doctorate in international nutrition. Moderator for the symposium will be Edwin B. Oyer, director of the Program in International Agriculture.

## Week Honors American Indians

A public lecture by American Indian author Jamake Highwater and a law conference on legal issues concerning Indians will be highlights of the fourth annual American Indian Week and Native American Law Conference here Sunday, Oct. 17, through Friday, Oct. 22.

The week will open with a showing of the film "Fish Hawk" starring Will Sampson at 2 p.m. Sunday, Oct. 17, in Hollis E. Cornell Auditorium of Goldwin Smith Hall. A \$1 donation will be requested.

The film will be shown a second time at 8 p.m. Tuesday, Oct. 19, at the same location.

Highwater, a professor at New York University, will discuss "The Primal Mind: Vision in America," at 8 p.m. Monday, Oct. 18, in Hollis E. Cornell Auditorium. An open reception will follow in Goldwin Smith Hall's History of Art Gallery.

The law conference will take place in the Moot Court Room of Myron Taylor Hall. The opening session will be at 7:30 p.m. Wednesday, Oct. 20. Charles Wilkinson, professor of law at the University of Oregon Law School, will speak on Supreme Court decisions affecting Indian peoples in the past 20 years.

Franklin Ducheneaux, special counsel on

Indian affairs for the House Committee on Interior and Insular Affairs will discuss Indian reorganization acts and sovereignty of nations.

Ralph Gonzales, chief of judicial services for the Department of Interior will speak on tribal codes. He is a native American.

The following day (Thursday, Oct. 21) at 2 p.m. in the Moot Court Room, David Gatches, associate professor of law at the University of California, will discuss Indian sovereignty over reservation resources. Bruce Green, an attorney in Denver, Col., will discuss hunting and fishing rights of native peoples. The conference will conclude with a talk by Richard West, an attorney with a Washington, D.C. firm, who will address the subject of tribal taxation.

The week will end with a performance by Floyd Westerman, an Indian country singer, who will be accompanied on the piano and vocally by a close personal friend, Max Gail, who stars as "Wojo" in the television series "Barney Miller."

The performance is scheduled for 8 p.m. Friday, Oct. 22, in the Memorial Room of Willard Straight Hall. A \$2.50 admission fee will be charged.

## Jobs

The following job openings are new this week. For information on vacant positions listed in previous issues of the Chronicle, contact Personnel Staffing Services, 130 Day Hall. Cornell is an affirmative action employer.

**Administrative/Professional**  
Curatorial Assistant (Johnson Museum of Art)  
Res. Support Specialist II (Vet. Micro., Plum Island Animal Disease Center, Greenport, L.I.)  
Salesperson (WHCU)  
Manager, Compensation (University Personnel Services)  
Heating, Ventilation & Air Conditioning Designer (Facilities Engineering)

**Clerical**  
Secretary, GR18 (Business & Public Administration)  
Office Assistant, GR18 (Business & Public Administration)  
Secretary, GR18 (School of Hotel Administration)  
Secretary, GR17 (Division of Nutritional Sciences)  
Office Assistant, GR171 (Office Equipment Center)  
Administrative Aide, GR21 (Chemistry)

**Technical**  
Technician, GR20 (Equine Drug Testing Program, NYRA Race Tracks)  
Accelerator Technician, GR20-26 (Laboratory of Nuclear Studies)

**General Services**  
Photo Assistant, GR20 (Architecture, Art & Planning)  
Assistant Baker, SO20 (Cornell Dining)  
Senior Experimental Machinist, GR26 (Chemistry)  
Custodian, SO16 (Varied)  
Head Custodian, SO17 (Buildings & Grounds Care)

**Part-time**  
Secretary, GR18 (Human Service Studies)  
Office Assistant, GR16 (Cornell Plantations)  
Cashier, GR15 (Cornell Dining)  
Lab. Technician, GR19 (Food Science)  
Technician, GR18 (Chemistry)

**Academic**  
Faculty Position, Large Animal Surgery (Clinical Sciences, NYS College of Veterinary Medicine)  
Director, NYS Agricultural Experiment Station (Office for Research, College of Agriculture & Life Sciences)  
Several Permanent Faculty Positions, Assistant Professor of Above (Cornell Law School)

The Job Opportunities list is mailed to all Cornell departments. In addition, it is posted in the following places: Day Hall Information Desk, second floor lobby; at the Circulation and Reference Desks of all university libraries; in the Map and Newspaper Section, Olin Library; all college and technical libraries; Roberts Hall Post Office substation and in the Upper Activities corridor, Willard Straight Hall.

## Cornell Chronicle

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



## At Christmas

## Floating Days Will Produce Holiday Week

The combination of winter holidays and floating days off for this December is scheduled to provide most employees with an opportunity to have an uninterrupted holiday period.

University Personnel Services reports that this year, the winter holidays and floating days off include: Friday, Dec. 24; Monday, Dec. 27; Tuesday, Dec. 28; Wednesday, Dec. 29; Thursday, Dec. 30, and Friday, Dec. 31. The university will observe Thanksgiving holidays on Thursday, Nov. 25, and Friday, Nov. 26.

Because of the operational needs of some departments, some employees may have to work on a university holiday. Non-exempt employees who work on a university holiday (including the two floating days off), will receive pay at 1½ times their normal rate for hours actually worked on a holiday, plus compensatory time off equal to their standard workday.

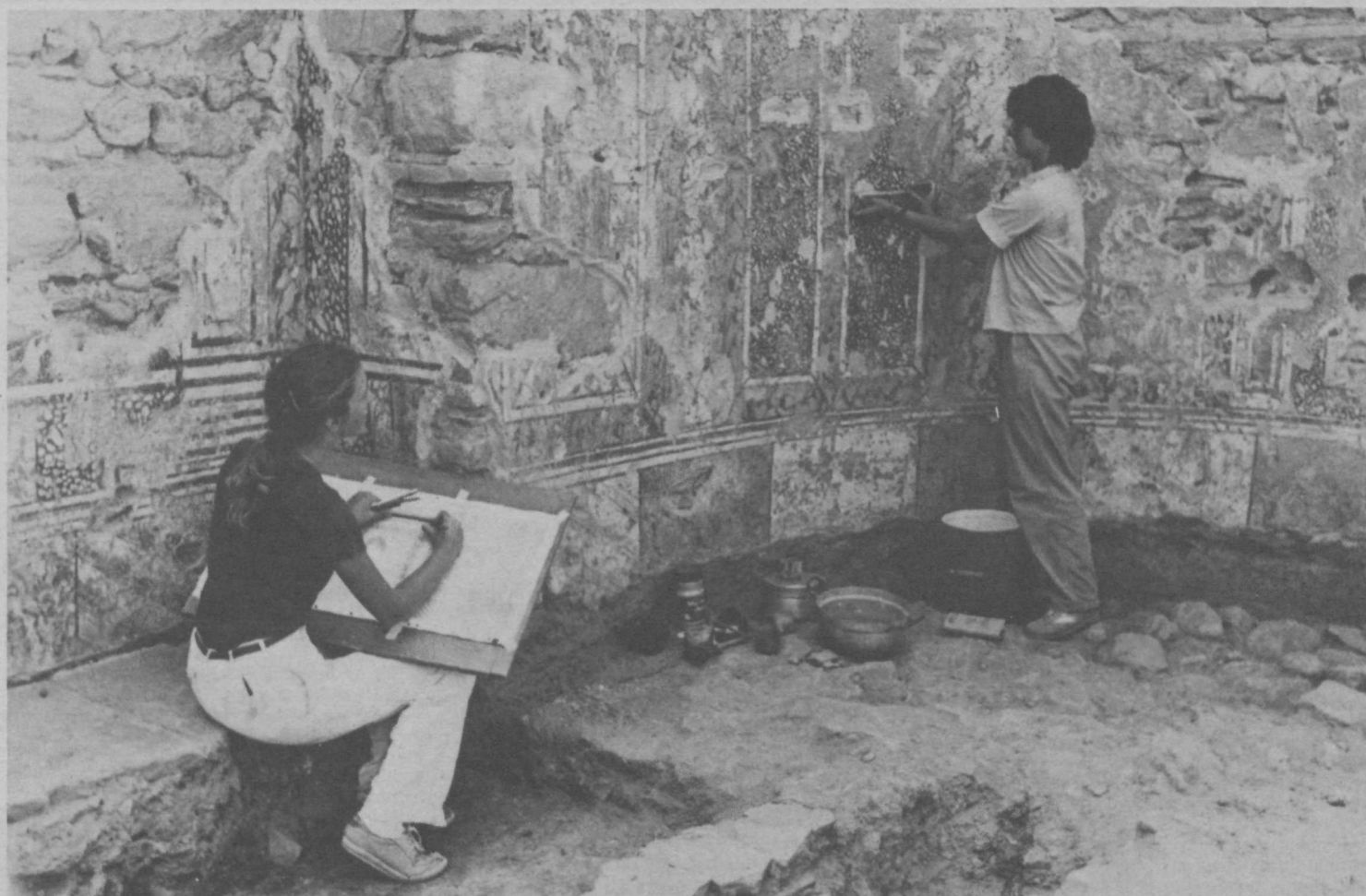
As an alternative, upon mutual agreement between an employee and his or her supervisor, the employee may receive straight pay for the holiday plus compensatory time off equal to 1½ times the number of hours actually worked on the holiday.

All holiday compensatory time earned for work on the official holidays must be taken within the fiscal year in which it is earned: before July 1, 1983.

Employees in collective bargaining units should refer to their contract for details on payment for holidays worked.

Although an official weekday holiday has been designated for the observance of Christmas, the university has made special provisions to recognize work performed by non-exempt employees on Christmas Day, Saturday, Dec. 25. For those non-exempt employees who perform work on Dec. 25, the university will pay 1½ times their normal rate for all hours actually worked on that date.

Due to the extended winter holidays, there will be no bus service during this period. Bus service will end on Thursday, Dec. 23, at 6 p.m. with the last bus out of B lot. Service will resume on Monday, Jan. 3, with the first bus leaving B lot at 5:45 a.m. Employees may park on campus during this holiday period.



Holly Biglari (grad) consolidates Late Roman wall paintings and Kathy Gleason '79 makes a reconstruction drawing.

## Sardis Group Makes New Discoveries

### Cornell-Harvard Expedition in 24th Season

The Cornell-Harvard summer expedition to Sardis, Turkey, has been completed with reports of "spectacular discoveries" at the ancient capital of Croesus this year.

The expedition, in its 24th season, explored the original capital of wealthy King Croesus. This capital was occupied in successive centuries by Persian, Greek and Roman leaders.

Sardis, capital of ancient Lydia, became famous and prospered under the Lydian kings, especially Croesus. Upon his death in 546 B.C., the city fell to the Persians. Flourishing under Persian rule, it then became the capital of the most important province of the Persian Empire.

A stone tower standing 14 feet high was cleared this season by Don McGuire, a

graduate student in the Classics Department. This tower, belonging to the huge fortification system of the 7th century B.C. which is now beginning to emerge, is tangible evidence of the power and resources of the Lydian Kingdom which dominated Asia Minor at the time, according to the associate director of the expedition, Andrew Ramage, associate professor and chairman of the History of Art.

Houses and public buildings which were built 900 years later by the Romans during the 4th and 5th century A.D. were explored, uncovering a room 28 feet long by 17 feet wide with walls standing to a height of 8 feet. Particularly high quality wall paintings, taking the form of an architectural scheme imitating in painted plaster actual

slabs of stone veneer in bright variegated colors, were exposed by Holly Biglari, a graduate student in the History of Art Department.

Other findings included pollen cores extracted from two nearby lakes, which should provide a record of the vegetation in the area, going back at least 25,000 years. This discovery by graduate students Elizabeth Shreeve of Harvard and Donald Sullivan of Berkeley promises to have significant impact on ecological studies, Ramage said. All work was done as part of an NSF grant to Cornell administered by the Program in Urban and Regional Studies for Spatial Analysis and Environmental Studies of Ancient Sardis.

## \$3 Million in New Gifts Goes to Performing Arts

Proceeds of an estimated \$3 million from a trust and an estate have been added to the funding for the first phase of construction of a Center for the Performing Arts at Cornell.

The trust of Andrew S. White and the estate of his wife, Claire Howard White, have come to Cornell as a result of Mrs. White's death in March, according to Austin H. Kiplinger, chairman of the advisory committee for the performing arts center.

"The decision to dedicate these funds to the new performing arts facility is consistent with the interests and wishes of Mr. and Mrs. White," Kiplinger said, "and is a crucial boost to our efforts."

Andrew S. White, who died in 1952, earned his bachelor's degree at Cornell in 1886 and his law degree in 1893. He was a nephew of Andrew D. White, co-founder of the university and its first president.

Mrs. White had a long operatic career as a lyric soprano. Under the stage name Claire Alcee, she was a member of the Paris Opera Company and performed here and abroad. She made her debut as

Desdemona in "Otello" with the Philadelphia Opera Company.

Funding for the performing arts center has reached \$5 million, half of the total sought for the first phase of a two-phase construction project that will result in a combination teaching laboratory and performance center for theater, dance and film.

The total project is expected to cost \$16.5 million in 1984 dollars.

University officials hope to begin construction of the initial phase in the spring of 1984. It will be located on the southern rim of Cascadilla Gorge at the entrance to the main campus from the Collegetown section of Ithaca. The summer of 1986 is the anticipated completion date for that phase.

The firm of James Stirling, Michael Wilford and Associates of London, selected by Cornell in June as architects for the performing arts center, is developing schematic drawings for the project that should be completed in February 1983, according to Alain Seznec, dean of the College of Arts and Sciences.

Stirling and Wilford are developing the drawings after meeting with the faculty in Cornell's Department of Theatre Arts to explore the philosophical objectives and to define the physical requirements of the

center.

Stirling won last year's Pritzger Architecture Prize for his life's work and is widely regarded as the world's leading architect.

## Acid Rain Directory Published

The second edition of the "Acid Precipitation New York State Directory," listing nearly 200 persons involved in the study of the phenomenon within the state, has been published by the Center for Environmental Research here.

The directory gives names, addresses and telephone numbers, institutional affiliations and activities of individuals with expertise in a variety of fields. Among them: Aquatic ecology, hydrology, limnology, fisheries biology, water chemistry, cloud physics, environmental engineering, microbiology, benthic ecology, statistics, geochemistry, plant physiology, economics, plant and forest pathology, horticulture, agronomy, pomology, mycology,

meteorology, geography and zoology.

Also included in the directory as being concerned with the causes or effects of acid precipitation are attorneys, educators, administrators and planners, political scientists and journalists.

The directory lists individuals according to category: Aquatic ecosystems, terrestrial ecosystems, atmospheric processes, monitoring, community education, and public policy, economics and health.

The directory is available for \$8 from the Center for Environmental Research, 468 Hollister Hall, Cornell University, Ithaca, N.Y. 14853.



# Calendar

All items for publication in the Calendar section, except for Seminar notices, must be submitted by mail or in person to Fran Appgar, Central Reservations, 532 Willard Straight Hall, at least 10 days prior to publication. Seminar notices should be sent to Barbara Jordan-Smith, News Bureau, 110 Day Hall, by noon Friday prior to publication. Items should include the name and telephone number of a person who can be called if there are questions, and also the subheading of the Calendar in which it should appear (lecturers, colloquia, etc.). **ALL DEADLINES STRICTLY ENFORCED.**

\*Admission charged.

## Announcements

### Saturday

Oct. 16, 10 a.m.-6 p.m. Ithaca Youth Services Bldg. (Tin Can). First Annual "Finger Lakes Railfair." Train exhibits, model railroads, railroadiana, flea market, auction. Sponsored by Cornell Railroad-Historical Society. Admission is \$1 adults, \$.50 for children.

### Academic Survival Workshops

Study Skills Oct. 18-Nov. 2 Mondays and Wednesdays; Reading Skills Oct. 19-28 Tues. and Thurs. All workshops are 4-5 p.m. Call 256-8269 or drop by 375 Olin Hall.

### Extramural Courses

Last day to change credit hours and grade options is October 15. Extramural Office, B12 Ives Hall.

### Safety Shoes

Employees will have an opportunity to buy special safety shoes on campus. The shoes will be sold from a mobile store scheduled to be parked at Stocking Hall, Tower Road from 9:30 a.m. to 12:30 p.m. and between Statler Auditorium and Barton Hall from 1:30-3:30 p.m. on Friday, October 22. Additional details may be obtained by calling Alex McCord, Department of Life Safety, 256-3744.

### My Indoor Playcenter

The Playcenter provides large motor development equipment and toys for children ages birth to 4 years of the Cornell Community. Children use the toys while the parents or other interested adults observe and interact with the children. There is Ongoing registration at the Robert Purcell Multi-purpose Room 9:30-11:30 a.m.

### Weigh Station

Jan Gibbs holds Weigh Station meetings for weight control each Thursday from 12 noon-1 p.m. at Barton Hall Blockhouse. Open to Professors, Students, Staff. For more information call 257-0853.

## Colloquia

### Thursday

Oct. 14, 12:15 p.m. Uris Hall 202. Sociology Colloquium: "Gender Discrimination and Popular Dynamics in South Asia," Barbara D. Miller, Senior Research Associate, Syracuse University.

Oct. 14, 4:30 p.m. Space Sciences 105. Astronomy and Space Sciences: "Low Mass Carbon Stars, Neutron Capture Nucleosynthesis, and Planetary Nebulae," Professor Icko Iben, Astronomy Department, University of Illinois.

### Thursday

Oct. 21, 12:15 p.m. Uris Hall 202. Sociology Colloquium: "Social Science in the Courtroom," Rosalind Lindner, Assoc. Prof., SUNY Buffalo, Member of the National Jury Project.

### Friday

Oct. 22, 3 p.m. Malott 251. Public Affairs Colloquium of the Graduate School of Business and Public Administration presents C. Kenneth Howard (M.P.A. and Ph.D. '62 Cornell). He will discuss how the Reagan Administration views federal-state-local relations. Dr. Howard is the Executive Director of the Advisory Commission on Intergovernmental Relations.

## Dance

### Wendy Rogers Dance Company

The Wendy Rogers Dance Company will give a performance at 8:15 p.m. Wednesday, Oct. 20, in Barnes Hall. The Cornell Dance Series and the Council of the Creative and Performing Arts will sponsor the free, public program.

The concert will include three new works. "Smoke Signals/Spit Fire," is based on a highly defined time score which creates visual rhythms by alternating action and stillness. This dance is set to American Gamelon music by Nancy Karp and Tablas by Shamas Jane Spence.

"Evidence of Dancing," is a suite of dances performed to a score by Bay Area Cajun musician Danny Poullard. In "Wintergreen," the movement and energy decay and regenerate

simultaneously as the company performs to nationally acclaimed composer Paul Drescher's original electronic score.

The Wendy Rogers Dance Company has performed throughout the United States and has recently returned from a successful European tour. The group has received several grants from the National Endowment for the Arts and tours with the California Arts Council Touring Program.

Reviewer Dick Moore, in the City Arts Monthly, recently wrote, "With rare economy of choreographic means and with great simplicity, Rogers involves us in almost all the sensual aspects of the real world she is recreating....She uses dance as I think dance should be used—to seek out, to express, and to celebrate reality."

### Monday

Oct. 18, 8 p.m. Straight Memorial Room. Contra Dance Club Contra and Square Dance. All welcome.

### Wednesday

Oct. 20, 7:30 p.m. Straight Memorial Room. Cornell International Folk Dancing. Teaching 7:30-8:30 p.m.; 8:30 p.m.-10:45 p.m. requests. Beginners and dancers at all levels welcome.

Oct. 20, 8:15 p.m. Barnes Hall. "The Wendy Rogers Dance Company." Co-sponsored by the Cornell Dance Series and the Council on the Creative and Performing Arts. Free and open to the community.

### Every Tuesday, 7:30-9 p.m.

Martha van Rensselaer Cafeteria. English Country Dancing. All dances taught. Beginners welcome.

### Every Sunday, 7:30-10:45 p.m.

Straight North Room International Folk Dancing. Teaching 7:30-8:30 p.m.; 8:30-10:45 p.m. requests. Beginners and dancers at all levels welcome.

Every Thursday Anabel Taylor One World Room. Israeli folkdancing. 8-9 p.m. teaching, 9-11 p.m. requests. Beginners through advanced. Everyone welcome.

## Exhibits

### Museum Day

On Sunday, Oct. 17, the Education Department of the Herbert F. Johnson Museum of Art will sponsor "Museum Day."

Held in conjunction with two exhibitions—"The World of Donald Evans" and "Images of Dignity: A Retrospective of the Works of Charles White"—Museum Day activities will include a series of simultaneous events for both children and adults. These events include children's films, watercolor and oil painting, stamp making demonstrations and gallery talks.

Participants will be encouraged to experiment with the process of rubber stamp making and watercolor painting. Materials will be provided by the Education Department of the Johnson Museum. All Museum Day events are free and open to the public and will be held from noon to 4 p.m. that day.

Lyman K. Stuart Observatory Laboratory of Ornithology. Exhibit of bird paintings by John Wiessinger. John is an area resident and a former artist-in-residence at the Laboratory. The paintings are on exhibit through October. Hours of operation are: 8 a.m.-5 p.m. Mon. through Thurs.; 8 a.m.-4 p.m. Fri.; 10 a.m.-5 p.m. on Sat. & Sun. Free parking available.

Herbert F. Johnson Museum "Images of Dignity: A Retrospect of Charles White" through Oct. 24; "The World of Donald Evans" through Oct. 31; "Francesc Torres: Field of Action" through Oct. 31; "Barbara Kasten: Photographs" through Oct. 17. Museum Day: in conjunction with "Images of Dignity" and "The World of Donald Evans," the Education Department will be holding Museum Day, Oct. 17, from 12 noon-4 p.m. Simultaneous events will be held for both adults and children. Join the Education Department for gallery talks, films, painting and stamp making demonstrations. Museum hours: 10 a.m.-5 p.m. Tuesday through Sunday.

The John Hartell Gallery, Sibley Hall "Paintings by Bill Roberts" through Oct. 23 "Photographs by Doug Nickel" Oct. 24 through Nov. 6.

## Films

Unless otherwise noted films are under sponsorship of Cornell Cinema.

### Thursday

Oct. 14, 8 p.m. \*Uris Hall Auditorium. "The War at Home" (1980), directed by Glenn Silber/Barry Brown, with documentary cast. Co-sponsored by Ithaca Peace Council.

### Friday

Oct. 15, 9:45 p.m. \*Uris Hall Auditorium.

"Beau Pere" (1981), directed by Bertrand Blier, with Patrick Dewere, Nathalie Baye.

### Friday & Saturday

Oct. 15 & 16, 12:30 a.m. \*Uris Hall Auditorium. "THX 1138" (1971), directed by George Lucas, with Robert Duvall.

### Saturday

Oct. 16, 7 & 9:45 p.m. \*Uris Hall Auditorium. "Beau Pere."

Oct. 16, 7 & 10:45 p.m. \*Statler Auditorium. "Ragtime" (1981), directed by Milos Forman, with James Cagney, Howard E. Rollins, Jr., Mary Steenburgen.

Oct. 16, 8 p.m. Risley Theatre. Risley Free Film Series: "Theatre of Blood." Funded in part by the Student Finance Commission.

### Sunday

Oct. 17, 8 p.m. \*Uris Hall Auditorium. "High School" (1968), directed by Frederick Wiseman, with documentary cast. Shown with "The Adventures of Captain Marvel #3."

### Monday

Oct. 18, 9 p.m. \*Uris Hall Auditorium. "Six in Paris" (1966), directed by Godard, Rohmer, Chabrol, Rouch, etc. Shown with "Brats." Limited to Film Club Members only.

### Tuesday

Oct. 19, 4:30 p.m. Rockefeller D. Southeast Asia Free Film Series: "The Miao Year Hmong People" parts I & II. The film shows aspects of the lives of the Blue Hmong in Thailand, such as marriage, agricultural and funeral practices, hunting for small animals, weaving, blacksmithing and silver-smithing.

Oct. 19, 8 p.m. \*Uris Hall Auditorium. Barbara Hanmer, visiting filmmaker showing a retrospective of her films: "Menses"; "Dyketic-tics"; "Available Strength"; "Double Strength"; "Our Trip"; Sync Touch"; "Machu Piccu." Cosponsored by Women's Studies.

### Wednesday

Oct. 20, 8 p.m. \*Uris Hall Auditorium. "The Exterminating Angel" (1962), directed by Luis Bunuel, with Silvia Pinal. Shown with "By Night With Torch and Spear" and "Vaudeville Deluxe" and "Cornell" starring Joseph Cornell.

### Thursday

Oct. 21, 8 p.m. Uris Hall Auditorium. "The Ragged Revolution, the Romance and the Reality of the Mexican Revolution, 1910-1920." Also: "Sandino Hoy Y Siempre" presents a picture of the reconstruction process in Nicaragua after the revolution. Sponsored by Committee on U.S.-Latin American Relations. Free and open to the public.

### Friday

Oct. 22, 7 & 10 p.m. \*Statler. "Superman II" (1981), directed by Richard Lester, with Christopher Reeve, Gene Hackman.

Oct. 22, 9:30 p.m. \*Uris Hall Auditorium. "Cutter's Way" (1981), directed by Ivan Passer, with Jeff Bridges, John Heard.

Oct. 22, 12 midnight \*Uris Hall Auditorium. "Enter the Dragon" (1973), directed by Robert Clouse, with Bruce Lee.

### Saturday

Oct. 23, 7:30 p.m. \*Uris Hall Auditorium. "Cutter's Way."

Oct. 23, 9:30 & 12 midnight \*Uris Hall Auditorium. "Enter the Dragon."

### Sunday

Oct. 24, 8 p.m. \*Uris Hall Auditorium. "Horse-headers" (1932), directed by Norman Z. McLeod, with the Marx Bros. Shown with: "College" with Buster Keaton. Also shown: "Captain Marvel #4."

## Lectures

### Thursday

Oct. 14, 12:20 p.m. 102 West Ave. Southeast Asia Thursday brown-bag luncheon seminar: "Socialism and Development in Burma," David Steinberg, U.S. Agency for International Development. Bring your lunch, coffee, tea and cookies will be provided.

Oct. 14, 4 p.m. Goldwin Smith Kaufmann Auditorium. "Being a Socialist in American Politics," Bernard Sanders, socialist political activist who won election as mayor of Vermont's largest city in 1981. Sponsored by Democratic Socialists of America, the Department of City and Regional Planning, the Government Department, the Rural Sociology Department, the Program for Participation and Labor Managed Systems, the Center for Religion, Ethics, and Social Policy, and the Interfraternity Council.

Oct. 14, 4 p.m. Morrill 106. "Orthography," Mark Aronff, Professor of Linguistics at SUNY-Stonybrook. Sponsored by Cornell Linguistics Circle.

Oct. 14, 8 p.m. Statler Auditorium. Preston H. Thomas Memorial Lecture Series in Architecture sponsored by Department of Architecture: "Theory of Architecture: Conflicting Roles of Myth," Francoise Choay, Paris.

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### Friday

Oct. 15, 12:20 p.m. Morrill 208. Cornell Linguistics Circle Informal Discussion: "Orthography," Mark Aronff, Professor of Linguistics at SUNY-Stonybrook.

Oct. 15, 4:30 p.m. McGraw 305. Anthropology Colloquium Series and Committee on U.S.-Latin American Relations. "Guatemalan Refugees in Mexico: Ethnicity and International Relations," Craig Nelson, Institute for Policy Studies.

Oct. 15, 8 p.m. Statler Auditorium. Preston H. Thomas Memorial Lecture Series in Architecture sponsored by Department of Architecture: "History and Remembrance in Alberti," Francoise Choay, Paris.

### Sunday

Oct. 17, 3 p.m. Statler Auditorium. Preston H. Thomas Memorial Lecture Series in Architecture, sponsored by the Department of Architecture: "Quatremere de Quincy," Francoise Choay, Paris.

### Monday

Oct. 18, 4:30 p.m. G-3 Veterinary Research Tower. C.S. Fullmer, Dept. Physiology, Cornell, and M. Lally, Waters Assoc. "Amino Acid Compositional Analysis and Peptide Mapping by High Performance Liquid Chromatography."

Oct. 18, 4:30 p.m. McGraw 305. Anthropology Colloquium Series and American Indian Studies. "Native Americans: as Authors and Subjects: Colloquium and Reading," Jamake Highwater, Cherokee writer and critic.

Oct. 18, 4:30 p.m. Goldwin Smith Hollis Cornell Auditorium. "Imagining Shakespeare," Stephen Orgel, Professor of English, Johns Hopkins University. Sponsored by the Department of English and the Society for the Humanities.

Oct. 18, 7:30 p.m. Anabel Taylor One World Room. "America and World Community." "Eastern Religion, America and World Community," Eldo Rosh, New York Zen Center.

### Tuesday

Oct. 19, 4:30 p.m. Goldwin Smith Kaufmann Auditorium. A.D. White Professor-at-Large Shlomo Avineri of the Hebrew University of Jerusalem will speak on "The Fossil and the Phoenix: Hegel and Krochmal on the Jewish Role in History." The public is invited.

Oct. 19, 8 p.m. Statler Auditorium. Preston H. Thomas Memorial Lecture Series in Architecture sponsored by the Department of Architecture: "Viollet-le-Duc," Francoise Choay, Paris.

### Wednesday

Oct. 20, 7:30 p.m. Anabel Taylor One World Room. "America and World Community." "Hu-



Fortepianist Malcolm Bilson will present a concert of music by Haydn and Mozart in Barnes Hall this weekend. He will play the free public program first at 8:15 p.m. tomorrow and repeat it at 4 p.m. on Sunday, Oct. 17.



man Transformation and World Community," David Let Davidson, former Professor of History.

#### Thursday

Oct. 21, 12:20 p.m. 102 West Ave. Southeast Asia Program Thursday brown-bag seminar: "Genocide and ExtraJudicial Execution in Cambodia: 1975-1978," David Hawk, former director of Amnesty International. Bring your lunch, coffee, tea and cookies will be provided.

Oct. 21, 4 p.m. Morrill 106A. Slavic Studies: "The Concept of Typology in Linguistics, the Social Sciences, and Biology," Roland Sussex, Professor of Russian at the University of Melbourne.

Oct. 22, 12:20 p.m. Morrill 208. Cornell Linguistics Circle Informal Discussion: "Free Relatives, Matching and the Head of S," Margarita Suner, Associate Professor of Spanish, Cornell University.

#### Sunday

Oct. 24, p.m. Anabel Taylor Edwards Room. A Visit to Ethiopia: The Crisis of Ethiopian Jews," Barbara Ribacove, Chairman of the North American Conference on Ethiopian Jewry. Lecture and slide show sponsored by the Student Struggle for Oppressed Jewry.

## Meetings

#### Wednesday

Oct. 20, 7:30 p.m. Emerson 135. Graduate Women in Science open meeting. Professors William and Marie Provine: "Surviving a Two-Career Academic Marriage." All are welcome. Refreshments will be served.

Every Thursday, 12:30 p.m.

Anabel Taylor Forum. Open AA meeting.

Every Thursday, 12:20-1:30 p.m.

Anabel Taylor Forum. Open A.A. meeting.

Every Sunday, 1-5 p.m.

Willard Straight North Room. Cornell Duplicate Bridge Club. Beginners welcome.

## Music

#### Saturday

Oct. 16, 8:15 p.m. \*Sage Chapel. Cornell University Glee Club Homecoming Concert. Preview of the Club's upcoming tour of California and will include works by Conte, Beck, Vittoria, Adams, Debussy and Schreck. David J. Conte, DMA Candidate and Acting Director, will conduct the concert.

#### Monday

Oct. 18, 7:30 p.m. Barnes Auditorium. B.R.A.H.M.S. Informal orchestra. All instruments needed. For information, 256-4464.

#### Saturday

Oct. 23, 8 p.m. Anabel Taylor Founders Room. Recital: Violet Cheng, soprano. Works of classical and Chinese opera.

## Religious Activities

#### Monday

Oct. 18, 7:30 p.m. Anabel Taylor G-34. Course on "Kabbalah." please register in advance in the Hill Office. Minimum enrollment is five people.

#### Tuesday

Oct. 19, 4:30 p.m. Anabel Taylor G-34. Course on "Family in Midrash."

#### Wednesday

Oct. 20, 7:30 p.m. Call 273-5775 for time and place. Course on "Basic Judaism."

## Religious Services

#### Friday

Oct. 15, 6 p.m. Anabel Taylor Chapel. Erev Shabbat Services (Reform).

Oct. 15, 6 p.m. Anabel Taylor Founders Room. Erev Shabbat Services

(Conservative/Egalitarian).

#### Saturday

Oct. 16, 9:15 a.m. Anabel Taylor Edwards Room. Shabbat Services (Orthodox).

Oct. 16, 10 a.m. Anabel Taylor Founders Room. Shabbat Services

(Conservative/Egalitarian).

#### Sunday

Oct. 17, 11 a.m. Sage Chapel. Sage Chapel Religious Service. Eido Tai Shimano Abbot, Rosh, New York Zendo, Shobo-ji. New York, NY.

#### Sunday

Oct. 24, 11 a.m. Sage Chapel. Sage Chapel Religious Service. Roger L. Shinn, Reinhold Niebuhr Professor of Social Ethics, Union Theological Seminary, New York City.

#### Catholic

Every Monday-Friday, 12:15 p.m. Catholic

Mass. Anabel Taylor G-19. Saturday, 5 p.m. Mass. Anabel Taylor Chapel. Sunday 9:30 & 11 a.m. Masses, Anabel Taylor Auditorium. Sacrament of Reconciliation by appointment.

#### Baptist

Every Sunday, Ithaca Baptist Church, 1825 Slaterville Road, 9:45 a.m. Bible Study; 11 a.m. Worship Service; 6 p.m. Discipleship Training; 7 p.m. Worship Service.

#### Episcopal

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

#### Friends (Quakers)

Every Sunday 9:45 a.m. Anabel Taylor Edwards Room. 9:45 a.m. adult discussion; 11 a.m. meeting for worship.

#### Muslim

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

#### Protestant Church

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

## Seminars

Africana Studies and Research Center: "In Search of International Support for Afro-American Rights During the Twentieth Century," Robert L. Harris Jr., associate professor of Afro-American history, 12:15 p.m. Friday, Oct. 15, Main Lounge, Africana Center, 310 Triphammer Road.

Agricultural Engineering: "Everyone Pays for Potholes" (a videotape presentation), L.H. Irwin, 12:20 p.m. Monday, Oct. 18, O. C French Seminar Room, 400 Riley-Robb Hall.

Agronomy: "Predicting the Nutritional Quality of Alfalfa Herbage," Gary W. Fick, 4 p.m. Tuesday, Oct. 19, 135 Emerson Hall.

Applied Mathematics: "Secant Methods for Noisy and Almost Sparse Problems," John Dennis, Rice University, 4:30 p.m. Friday, Oct. 15, 165 Olin Hall.

Atomic and Solid State Physics: Solid State Seminar: "Organic Metals, Semiconductors and Superconductors," C.B. Duke, Xerox Webster Research Center, 4:30 p.m. Tuesday, Oct. 19, 700 Clark Hall.

Atomic and Solid State Physics: Theory Seminar: "Degenerate Helimagnet States, Lines of Soft Modes, and Absence of Long-Range Order in Three Dimensions," Luciano Reatto, University of Milan, 1:15 p.m. Thursday, Oct. 21, 701-702 Clark.

Biochemistry: "Active Transport from Membrane to Molecule," H. Ronald Kaback, Roche Institute of Mol. Biology, 4:30 p.m. Friday, Oct. 15, 204 Stocking Hall.

Biochemistry: "Phage Lambda Integrative Recombination," Nancy Craig, NIH, 12:20 p.m. Monday, Oct. 18, 125 Riley Robb.

Biological Sciences: "Plasma Membrane Lesions During Freezing and Thawing of Isolated Protoplasts," Michael Dowgert, 11:15 a.m. Friday, Oct. 15, 404 Plant Science.

Biophysics: "Transport Through Membranes," Stuart McLaughlin, SUNY-Stony Brook, 4:30 p.m. Wednesday, Oct. 20, 700 Clark Hall.

Boyce Thompson Institute: "Reductive and Oxidative Effects on Chloroplast Enzymes," Rudolf Slovacek, Corning Glass Works, 3:15 p.m. Wednesday, Oct. 20, BTI Auditorium.

CAPE: "Industrial Cogeneration and Electricity Production in the United States," Paul L. Joskow, MIT, 4 p.m. Thursday, Oct. 14, 498 Uris Hall.

Chemical Engineering: "Polyelectrolyte Solutions: From Random Coils to Rigid Rods," William B. Russel, Princeton University, 4:15 p.m. Tuesday, Oct. 19, 145(A) Olin Hall.

Design and Environmental Analysis: "Planning for a Leased Office Building," Lee Bumsted, IBM, 4:30 p.m. Monday, Oct. 18, 317 MVR.

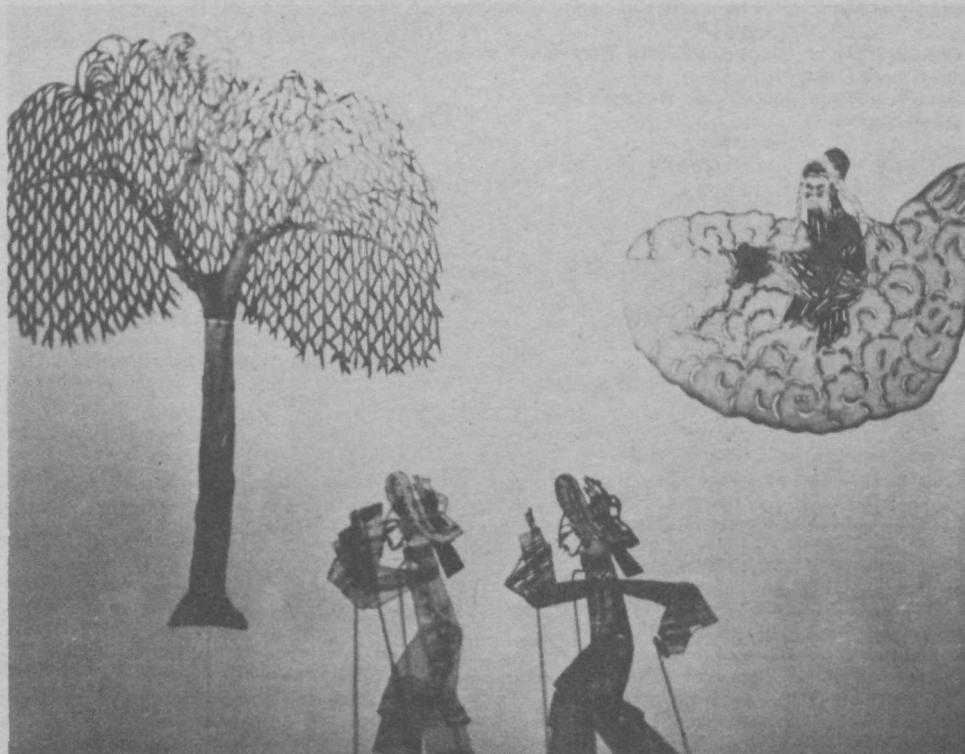
Ecology & Systematics: "Competition in Desert Rodent Communities," Mary V. Price, Univ. of Calif., Riverside, 4:30 p.m. Wednesday, Oct. 20, Morison Seminar Room, Corson Hall.

Floriculture and Ornamental Horticulture: "Cornell's Resource Information Lab—What is it?—And—An Example of Its Work in Yemen," Ernest Hardy, 12:15 p.m. Thursday, Oct. 14, L.H. MacDaniels Lecture Room, 37 Plant Science.

Food Science: "Vitamins C and E and Nitrosamines," William Mergens, Hoffmann-La Roche, 4:30 p.m. Tuesday, Oct. 19, 204 Stocking Hall.

General Chemistry: "Time Dependence of Chirality," Robert Harris, University of California, Berkeley, 4:40 p.m. Thursday, Oct. 14, 119 Baker Laboratory.

General Chemistry: "The Inorganic Biochemistry of Cytochrome c Oxidase," S.I. Chan, California Institute of Technology, 4:40



A scene from "The White Snake Legend," which will be performed by the Yueh Lung Theatre at 8:15 p.m. Saturday, Oct. 16, in Hollis Cornell Auditorium, Goldwin Smith Hall. The performance is being sponsored by the China-Japan Program in conjunction with the Council for the Performing Arts as part of a series on shadow theatre. Cornell Professor Emeritus of Chinese Literature Harold Shadick will give a free lecture on "Popular Entertainments in China," at 4:30 p.m. tomorrow in the Asian Studies Lounge, 374 Rockefeller Hall.

p.m. Thursday, Oct. 21, 119 Baker Laboratory.

Geological Sciences: "Ophiolite Emplacement in Newfoundland," J. Karson, Woods Hole, 4:30 p.m. Thursday, Oct. 14, 205 Thurston Hall.

Geological Sciences: "Fluids in the Earth's Crust," W. Fyfe, Univ. Western Ontario, 4:30 p.m. Thursday, Oct. 21, 205 Thurston Hall.

JUGATAE: "Some Aspects of the Relationship Between Bumblebees and Larkspur (Delphinium Nelsoni)," Nicholas Wasar, University of California at Riverside, 4 p.m. Monday, Oct. 18, 100 Caldwell Hall.

Materials Science and Engineering: "GaAs Materials Technology," J. Woodall, IBM, 4:30 p.m. Thursday, Oct. 14, 140 Bard Hall.

Materials Science and Engineering: "Hydrogen in Obsidian and Glasses—Nuclear Analysis, Art and Archaeology," W. Lanford, SUNY, Albany, 4:30 p.m. Thursday, Oct. 21, 140 Bard.

Mathematics (Olivetti Club): "Surgery and 3-Manifolds," Dale Rolfsen, University of British Columbia, 4:30 p.m. Tuesday, Oct. 19, 328 White Hall.

Mechanical and Aerospace Engineering: "Motion Induced by Capillarity," Simon Ostrach, Case Western Reserve, 4:30 p.m. Tuesday, Oct. 19, 282 Grumman Hall.

Microbiology: "The Biology of Spirochete Motile Behavior," Eric Goulbourne Jr., 4:30 p.m. Thursday, Oct. 14, 124 Stocking Hall.

Microbiology: "Production of Intestinal Mutagens by Anaerobic Bacteria," Tracy Wilkens, Virginia Polytechnic Institute, 4:30 p.m. Thursday, Oct. 21, 124 Stocking Hall.

Natural Resources: "Effects of Logging on Aquatic Resources: Studies in Oregon and Maine," John Moring, University of Maine-Orono, 4 p.m. Thursday, Oct. 14, 304 Fernow.

Natural Resources: "A Genetic Strategy for Lake Trout Rehabilitation in the Great Lakes," Charles Kreuger, Bureau of Fish Management, Madison, Wisc., 4 p.m. Thursday, Oct. 21, 304 Fernow.

Neurobiology & Behavior: "The Neuroethology of How Insects Avoid Bats," Lee Miller, Odense University, Denmark, 12:30 p.m. Thursday, Oct. 14, Morison Seminar Room, Seeley G. Mudd Hall.

Neurobiology & Behavior: "Social Organization and Behavioral Endocrinology in the Prairie Vole: a monogamous animal," Carol Sue Carter, University of Illinois, 3:30 p.m. Friday, Oct. 15, 202 Uris Hall.

Nutritional Sciences: "Relating Improvement in Water and Sanitation to Nutritional Status," Raymond Isely, assoc. director, Water and Sanitation for Health Project, 12:40 p.m. Thursday, Oct. 14, 130 Savage Hall.

Operations Research: "Isotone Regression as

a Quadratic Programming Problem," Christoph Witzgal, National Bureau of Standards, 4:30 p.m. Tuesday, Oct. 19, 315 Upson.

Organic/Organometallic Chemistry: "Recent Progress in Taxane Synthesis," Robert Holton, Virginia Polytechnic Institute, 8:15 p.m. Monday, Oct. 18, 119 Baker Lab.

Ornithology: "Diseases of Wild Birds," David Graham, 7:45 p.m. Monday, Oct. 18, Stuart Observatory, Sapsucker Woods Road.

Plant Pathology: "The Role of Localized Host Cytoplasmic Response in Barley Powdery Mildew Resistance Conditioned by the mlo allele," M.C. Stolzenburg, 4:30 p.m. Tuesday, Oct. 19, 404 Plant Science Building.

Reproductive Physiology-Endocrinology: "The Use of Lipid Transfer Proteins in Membrane Modification," Donald B. Zilversmit, 4:30 p.m. Wednesday, Oct. 20, 348 Morrison Hall.

Statistics: "An Optimal Procedure for Modified Binomial Group-testing," Peter Enis, SUNY at Buffalo, 3:30 p.m. Wednesday, Oct. 20, 300 ILR Conference Center.

Toxicology: "Effects of a Choline-deficient Diet on Chemical Hepatocarcinogenesis in the Rat," Benito Lombardi, University of Pittsburgh School of Medicine, 12:20 p.m. Friday, Oct. 15, 100 Savage Hall.

Vegetable Crops: "Pick-your-own Marketing of Fruits and Vegetables," J.W. Courter, 4:30 p.m. Thursday, Oct. 21, 404 Plant Science Building.

Western Societies Program: "The Figuration of Gestures in the Middle Ages," Jean-Claude Schmitt, Ecole des Hautes Etudes en Sciences Sociales, 12:15 p.m. Monday, Oct. 18, 112 Ives.

Western Societies Program: "How Adversarial is Contemporary British Politics?" Henry M. Drucker, University of Edinburgh, 4:30 p.m. Monday, Oct. 18, 112 Ives Hall.

## Sports

#### Friday

Oct. 15, 3:30 p.m. Cascadilla Courts. Women's Tennis St. Lawrence.

Oct. 15, 6 p.m. Upper Alumni Field. Men's Varsity Soccer-Brown.

Oct. 15, 8:30 p.m. Schoellkopf. Men's 150-lb. Football Princeton.

#### Saturday

Oct. 16, 10:30 a.m. Schoellkopf. Women's Soccer Brown.

Oct. 16, 10:30 a.m. Upper Alumni Field. Women's Varsity Field Hockey-Brown.

Oct. 16, 1:30 p.m. \*Schoellkopf. Men's Varsity Football-Brown. Homecoming.

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**Monday**

Oct. 18, 3:30 p.m. Cascadilla Courts. Women's Tennis/Syracuse.

**Tuesday**

Oct. 19, 3:30 p.m. Cascadilla Courts. Women's Tennis/Ithaca College.

Oct. 19, 7:30 p.m. Schoellkopf. Women's Varsity Field Hockey.

**Wednesday**

Oct. 20, 4:30 p.m. Moakley Course. Men's JV Cross Country-Delhi.

**Thursday**

Oct. 21, 3:30 p.m. Schoellkopf. Women's Soccer/Ithaca College.

Oct. 21, 7:30 p.m. Schoellkopf. Women's Varsity Field Hockey-Syracuse.

Oct. 21, 8:30 p.m. Upper Alumni Field. Women's JV Field Hockey-Syracuse.

**Friday**

Oct. 22, 4 p.m. Schoellkopf. Men's JV Soccer-Nazareth.

Oct. 22, 7:30 p.m. Schoellkopf. Men's Varsity Soccer/Dartmouth.

**Saturday**

Oct. 23, 10 a.m. Schoellkopf. Men's Frosh Football/Dartmouth.

Oct. 23, 1:30 p.m. Schoellkopf. Men's Varsity Football/Dartmouth.

**Theater****Thurs. through Sat.**

Oct. 14-16, 8:15 p.m. \*Lincoln Drummond Studio. Theatre Cornell production: "Streamers" by David Rabe.

**Thurs. through Sat.**

Oct. 21-23, 8:15 p.m. \*Lincoln Drummond Studio. Theatre Cornell production: "Streamers" by David Rabe.

**Sunday**

Oct. 24, 2:30 p.m. \*Lincoln Drummond Studio. Theatre Cornell production: "Streamers" by David Rabe.

# Graduate Bulletin

Late initial course registration and/or course additions are still possible upon payment of a \$10 processing fee. (Deadline for registration was Sept. 24.) Use your Social Security number where the I.D. number appears. Oct. 29 is the deadline for dropping courses or changing the grade option.

Now is the time to investigate opportunities for support for the 1983-84 academic year. Check the Fellowship Notebook at your graduate faculty representative's office or at the Fellowship Office for additional information on the awards whose deadlines are listed below.

Nov. 1: **American-Scandinavian Foundation (ASF) Awards for Study in Scandinavia** - mail application to: The American-Scandinavian Foundation, 127 East 73 St. New York, NY 10021.

Nov. 1: **Fannie & John Hertz Foundation Graduate Fellowships in the Applied Physical Sciences** - mail application to: Fannie & John Hertz Foundation, P.O. Box 2230, Livermore, CA 94550.

Nov. 1: **New York State Assembly Graduate Scholars Program** - mail application to: Assembly Intern Program, 829-A LOB, Albany, NY 12248.

Nov. 1: **Sigma Xi Grants-in-Aid of Research** - provide research awards of \$100-\$1000 in support of scientific investigation in any field; funds must be expended directly in support of the proposed investigation. Grants are not normally made for expenses of publication salary or tuition, travel to meetings or usual and routine institutional obligations. Applications are available at the Fellowship Office.

Nov. 1: **Social Science Research Council Fellowships for International Doctoral Research** - provide support for up to 24 months of training, field research and write-up for dissertation research in the social sciences and humanities.

## Barton Blotter

A total of \$4,680 in cash and valuables, including a \$2,500 electronic balance from Boyce Thompson Institute, was reported stolen on campus during the period from Oct. 4 to Oct. 10, according to the morning reports of the Department of Public Safety.

It was the second incident of a valuable balance being stolen from Boyce Thompson in a week. Public safety is investigating both incidents.

Wallets, purses and knapsacks were the prime targets of thieves on campus. Losses in cash amounted to more than \$500. Four wallets, three purses and three knapsacks were reported stolen. In several cases the wallets were recovered but the cash was missing.

Two ten-speed bicycles, one worth \$313 and the other \$150, were reported stolen.

Three students were referred to the Judicial Administrator on charges of taking a plastic plant from the lobby of Delta Tau Delta. Two other students were referred to the Judicial Administrator on charges of tampering with a \$300 tree being used in a project near the Large Animal Clinic.

Safety officials were investigating three incidents of persons failing to comply with officers at traffic booths on campus.

In other thefts a student reported \$461 worth of winter clothing stolen from North Campus 8.

Applicants must have completed all the requirements for the Ph.D. except the dissertation by the date the fellowship is activated. Grants are made for research in Africa, Asia, Latin America and the Caribbean, the Near and Middle East, and Western Europe.

Nov. 5: **Committee on Scholarly Communication with the People's Republic of China (CSCPRC)** - provides grants for U.S. citizens for graduate study or research in the sciences and engineering, the social sciences and the humanities. Awards provide funds for transportation, stipend, local travel and educational materials. Applications are now available from Linda Kao, 100 Sage Graduate Center, 6-4603.

Nov. 8: **National Science Foundation-NATO Postdoctoral Fellowship** - mail application to: National Science Foundation, NATO Postdoctoral Fellowship Program, Office of Scientific and Engineering Personnel and Education, Washington, DC 20550

Nov. 15: **The American Academy in Rome Prize** - open to applicants in painting, sculpture, musical composition, architecture, landscape architecture, classical studies, classical art and archaeology, history of art, and medieval/byzantine studies. Fellows receive living and working quarters, board, \$800 travel allowance, and a yearly stipend of \$5400.

Nov. 15: **The Winston Churchill Foundation Fellowship** - applicants must be U.S. citizens between the ages of 19 and 26, must hold a bachelor's degree or equivalent from a U.S. college, may not have attained the doctorate, and must be enrolled in one of the participating colleges and universities in engineering, mathematics and the sciences, the social sciences or the humanities. Awards provide tuition, \$500 travel allowance, \$1,000 dependent's allowance, and a stipend of \$2,000 for one-year awards or \$2,500 for three-year awards.

Nov. 24: **National Science Foundation Graduate Fellowships** - three-year awards provide an annual stipend of \$6900 plus a \$4000 cost-of-education allowance for study or research leading to advanced degrees in the mathematical, physical, biological, engineering and social sciences and the history and philosophy of science. Applicants must be U.S. citizens or nationals who have not completed postbaccalaureate study in excess of 20 semester/30 quarter hours in any field of science/engineering following completion of the first baccalaureate in science/engineering. Applications are available at the Fellowship Office.

Nov. 24: **National Science Foundation Minority Graduate Fellowships** - same criteria as for NSF Graduate Fellowships. In addition, applicants must be members of an ethnic minority group underrepresented in the advanced levels of the U.S. science personnel pool: American Indian, Black, Mexican-American/Chicano, Puerto Rican, Native Alaskan (Eskimo or Aleut) or Native Pacific Islander (Polynesian or Micronesian).

## Homecoming Will Feature Full Weekend of Activities Here

Homecoming will be more than a football game for the hundreds of alumni and their families expected on campus tomorrow and Saturday.

A full schedule of activities including tours of the campus, Plantations, Sapsucker Woods, the Herbert F. Johnson Museum of Art and the Ward Laboratory of Nuclear Engineering has been arranged for Friday.

Details are in leaflets to be given all alumni but which also can be obtained at the Cornell Class Affairs Office at 626 Thurston Ave., telephone 256-3516 and 256-4850.

One of the highlights will be a pre-game luncheon in Barton Hall starting at 11:30 a.m. Saturday. The Cornell varsity football

team will play Brown University at 1:30 p.m. at Schoellkopf Field.

There will be class receptions after the game at various sites which are listed in the Homecoming Schedule of Events.

At 8:15 p.m., the Glee Club will give a concert in Sage Chapel. Also starting at same time there will be a performance of David Rabe's "Streamers" by Theatre Cornell in Drummond Studio at Lincoln Hall.

Also during the two days there will be a number of other athletic events including soccer match against Brown at 6 p.m. Friday at Schoellkopf Field, followed by a 150-pound football game at 8:15 p.m. against Princeton University.

## Openings Still Available for CRC's Wineries Trip

There are still a few openings for the Saturday, Oct. 16, trip to New York State Wineries, sponsored by the Cornell Recreation Club.

Cost of the trip is \$8.50 for CRC members and \$13.50 for non-members. The fee includes the cost of the bus and tour.

The bus will leave B lot at 9:30 a.m. and return by 5 p.m. Gold Seal, Bully-Hill and Demay wineries are on the agenda for the day.

To register call 256-7565 or stop by the Recreation Club's offices in 165 Day Hall.

## CIVITAS

**REFUGEE ASSISTANCE PROGRAM:** Set up to help newly-arrived refugees learn English.

You may work as an aide in one of the ESL classes (held M,W,F, 9-11 a.m. or M,T,W, 7-9:30 p.m.), tutor outside class on a one-to-one basis or just become a friend to help your refugee feel at home in his/her adopted land. If you are interested, have questions or wish to sign up, come to CIVITAS, 119B Anabel Taylor, today.

**BIG BROTHER SOUGHT:** For 15 year old male adolescent interested in physical fitness and weight control. Volunteer should be willing to work out 1-2 hours twice a week on a mutually convenient schedule.

**OPOSSUMS AND OTHER MARSUPIALS**

**NEED CARE:** Help wanted to clean and feed animals any afternoon between 1-5 p.m. for an hour or two. A car is desirable, but Cornell minibus will get you there and back. A semester's commitment required.

**BASKETBALL COACHES ARE BEING RECRUITED:** For Sat. morning YBA Program starting Oct. 23, and continuing till March 19 (except 11/27, 12/25, 1/1 and 1/8). Nov. and Dec. are practice months, games scheduled for Jan., Feb. and March. Coaches teach co-ed teams 1-1.5 hours each week between 9-11 a.m. (8-9 yrs.), 11-1 p.m. (10-12 yrs.) or 1-3 p.m. (11-13 yrs.). Values, good sportsmanship and skill development stressed, and everyone plays.

**SWIM INSTRUCTOR FOR SENIOR**

**CITIZENS:** Is sought to provide assistance to individuals, in a group setting, at the Sheraton Pool, Fri. mornings, 10:15-11:30 a.m. Also needed; two volunteers to lead exercises for arthritics, also at the Sheraton Pool, Tues. mornings, 10:30-11:30 a.m. Related experience helpful for the latter job.

**AN OPPORTUNITY TO KEEP UP YOUR GERMAN OR SPANISH:** Small Waldorf elementary school seeks volunteer with authentic accent to teach 5-10 year olds twice a week for 40 mins. on a flexible schedule between 9-3 p.m. Can include games, poems, songs and oral presentation of material. Optional staff meeting, Tues. at 4 p.m. Located on a city bus line.

**ARTS AND CRAFTS HELPERS,**

**NUTRITION/COOKING ASSISTANTS:** Are

sought by downtown community center for its after-school program for elementary children. Schedule is flexible, and your help is welcome whenever you are free between 3-5:30 p.m., weekdays. Conveniently located.

**ALTERNATIVE SECONDARY SCHOOL:** SEVERAL NEEDS: Volunteers are sought for the following courses, at least once a week, during the school's first class cycle which ends Nov. 5: a) Video Project (all aspects of using equipment and producing footage), one-to-one help, Tues., 12-2:30 p.m.; Introductory Psychology, tutoring, M,W,T,F, 1:45-2:30 p.m.; Apple II Microcomputer, one-to-one help, once a week, any day between 8-2:30 p.m., on a flexible schedule.

**ENGLISH-JAPANESE EXCHANGE:** Young Japanese woman, married, mid-20s, wishes to exchange knowledge of Japanese language and culture for English language and American culture. She hopes to find someone of similar age and marital status who is studying Japanese.

**NURSING HOME HOPES TO FIND:** Volunteers interested in music, art or gardening and plant care, who are willing to put together a short talk or demonstration, 30-45 mins., for residents. Can be any weekday, between 10-4 p.m. Your willingness to share your professional interest/hobby is very much appreciated by elderly shut-ins. Located on city bus line.

**VOLUNTEER KNOWLEDGEABLE ABOUT:** **CARS:** Needed to assist Chinese Vietnamese student, 20 years old, who is studying automotive mechanics but having trouble with the specialized vocabulary. Late afternoons, after 3:15 p.m., or over the weekend at a mutually convenient meeting place, maybe downtown Ithaca. Your will need a car.

**HEADSTART PROGRAM IN TRUMANSBURG:** Hopes to locate helpers to work one half-day per week, reading to children, doing art work with them and generally assisting the teachers. Program serves 16 children, 3-5 years old, and operates M-T, 8-2:45 p.m. Your will need a car.

**BLOODMOBILES ON CAMPUS THIS SEMESTER:** Oct. 25 and 26 (10-3:45 p.m.), Barton Hall; and Nov. 1 (10-3:45 p.m.), Vel. School Research Tower Cafeteria. The Red Cross welcomes helpers as well as donors. Come to CIVITAS for more information.

**COOKS AND CLOWNS NEEDED BY AFTER-SCHOOL PROGRAM:** Volunteer sought to teach cooking to 4th-6th graders, on Wed. afternoons 2-4:30 p.m. starting as soon as possible, for the semester. Also, someone interested in clowning to work with a group of children one afternoon a week after 3 p.m., as an assistant to other clown leaders. **TO OFFER YOUR HELP:** COME TO CIVITAS, 119B Anabel Taylor Hall, or call 256-7513. Open M,W,F, 9-3; T, Th, 10-2.



**United Way**  
of Tompkins County

More than \$150,000 in pledges have been received, bringing the Cornell portion of the 1982 United Way of Tompkins County drive to 53 percent of its goal of \$280,000. Staff members in the Division of Campus Life, where the drive is chaired by Chrissie Schelhas-Miller and Michael Daley, have pledged 103 percent of their goal; Athletics, chaired by Richard Moran, 99 percent; and Public Affairs, chaired by Kathy Farrell, 92 percent.



# Dairy Farm Highly Energy-Efficient Facility

## Cornellians' Design Shows How Farmers Can Create Own Power

A modern commercial dairy farm designed by Cornellians, capable of meeting at least 50 percent of its energy needs, has made its debut as one of the nation's most energy efficient facilities.

Located near Groton, about 15 miles northeast of Ithaca, Millbrook Farm is the site of a Cornell University project known as "Energy Integrated Dairy System."

Dedicated in a ceremony last Thursday, the system emphasizes energy conservation techniques affecting the various phases of farm operations and on-farm production of methane and electricity.

The project was undertaken by a large team of scientists and engineers from the State College of Agriculture and Life Sciences to show American farmers how to reduce their dependence on dwindling supplies of fossil fuels.

Larry P. Walker, agricultural engineer and leader of the project, said, "We now have a good, simple system on the farm that requires a minimum of labor and time for management, yet it can achieve dramatic reduction in the farm's energy requirements."

The dedication marks the halfway point of this four-year project scheduled for completion in 1984. Farmers across the country can see the farm in operation on tours conducted by Cornell Cooperative Extension.

The \$1.5 million project is co-sponsored by the U.S. Department of Energy, the New York State Energy Research and Development Authority, Agway Inc., New York State Electric and Gas Corp., Cornell, and Ronald W. Space, owner of the farm.

Space and his son, Ronald Jr., operate the 500-acre farm that has 300 cattle, including 180 milking cows. The land is used primarily to produce corn and hay crops.

Energy conservation techniques being used in some of the key phases of the farm operation and energy production facilities now in place on the farm represent a "package of agricultural technologies" developed in recent years in this country, according to Walker.

Millbrook Farm's manure management system has been overhauled in terms of storage and application to give heavy emphasis to energy conservation. Instead of using the previous energy-hungry tractor-driven spreader, a more energy-efficient, reconditioned Army truck equipped with a 3000-gallon capacity tank is now used.

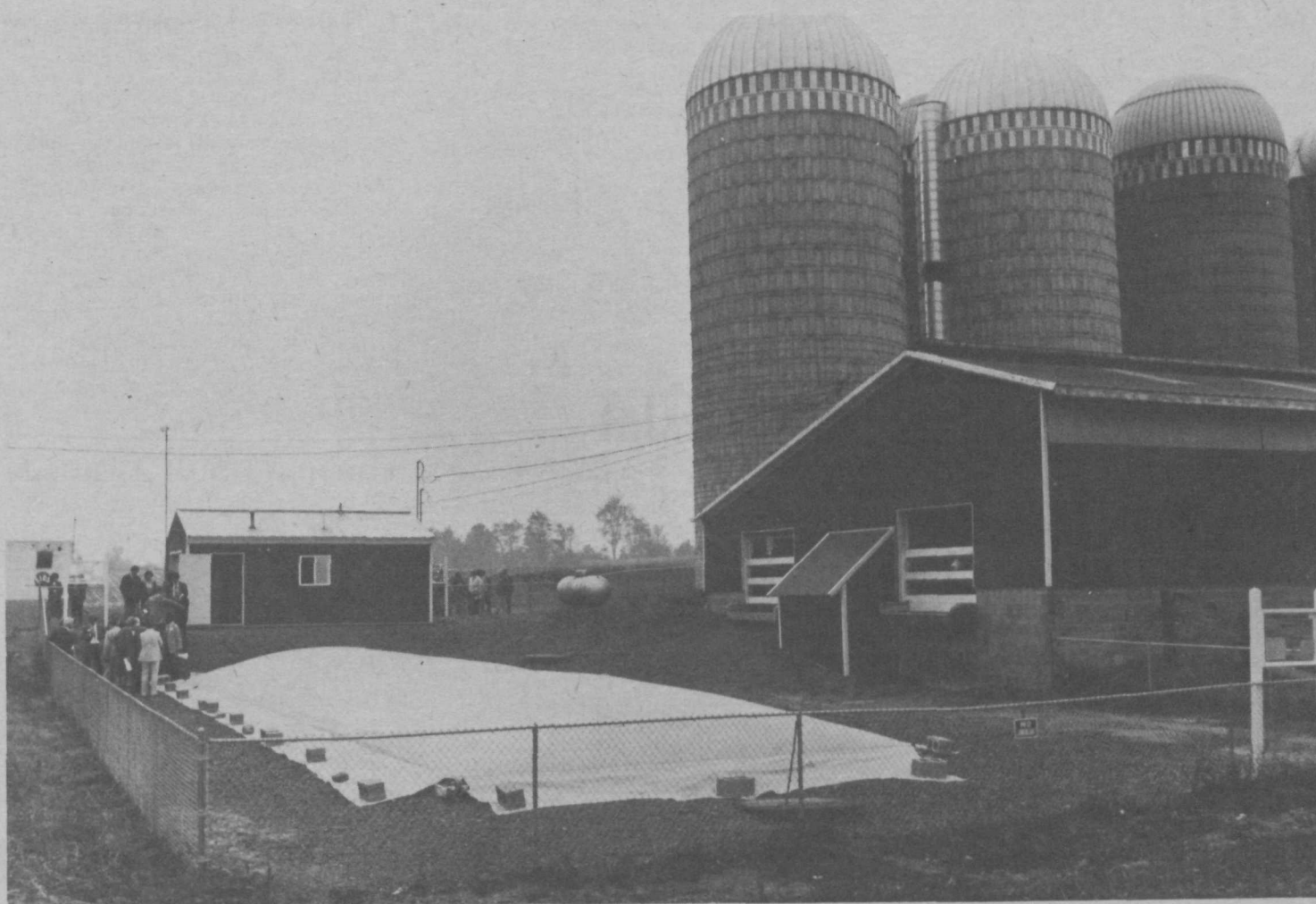
Walker estimated that this step alone will result in a 60 percent savings in diesel fuel consumption for hauling and applying manure and a 50 percent savings in labor. Since all of the manure produced on the farm will be used to supply nutrients vital for crop production, this will lead to a 60 percent savings in the use of chemical fertilizers.

Another conservation step minimizes the energy needed for tillage operations. It calls for the use of chisel plows instead of moldboard plows. This will result in about a 33 percent savings in fuel consumption and 25 percent in labor, and one-third less soil erosion.

The milking parlor is equipped with a "precooler," a device that cools fresh milk from 95°F. down to 55, using cool well water. It does the cooling while milk is on its way to the refrigerated bulk tank. The well water that picks up heat from the milk is stored as a source of drinking water for animals. This setup reduces refrigeration requirements by half, Walker said.

The heart of any electrically powered refrigeration system is the compressor, which gives off a considerable amount of heat. To tap this waste heat, a heat exchanger has been installed to collect the heat in the form of warm water. This water, some 500 gallons a day, is used to clean milking equipment.

In addition, a detergent recycling system



Photos by Yong H. Kim

Shown (in the forefront) is a large-scale methane digester designed to handle all the manure from as many as 240 milking cows daily, producing 16,000 to 17,000 cubic feet of biogas, a mixture of 60 percent methane and 40 percent carbon dioxide.

has been added to the milk-cleaning system to conserve detergents' electricity and water. The detergent solution is used four to five times, resulting in a 60 percent savings in detergent use and 50 percent in electrical energy needed to heat water. This system was developed several years ago by another team of Cornell researchers.

Also in place is a large methane generator designed to process the tons of manure from as many as 240 milking cows. The "methane digester" daily produces 16,000-17,000 cubic feet of "biogas," a mixture of about 60 percent methane and 40 percent carbon dioxide. That much biogas is the equivalent of 77 gallons of gasoline in energy value.

About 90 percent of this gas is used to run an electrical generator (29 KWH capacity). The generator produces 200,000 kilowatt-hours of electricity per year — more than enough to meet the farm's electrical energy needs. The surplus power, estimated to be about 40 percent of the total, is sold to the local utility company.

Heat given off by the generator engine also is collected in the form of hot water (180°). This water is used to meet 70 percent of the heating needs in the farm owner's house. In addition, the hot water keeps the temperature of the methane digester at 95° throughout the year for best performance.

Manure going through the digester ends up in a large earthen storage facility, where the waste material gives off little odor, while retaining vital nutrients for crops.

The rest of the biogas (10 percent) is used to run some of the farm equipment, including a pickup truck, a small tractor, and a front-end loader. Undesirable carbon dioxide is removed from the biogas before it is compressed into fuel bottles for these vehicles.

To monitor the minute-by-minute operation of the facilities, two computer systems have been installed. One of them measures



Ronald W. Space (right), owner of Millbrook Farm, explains how the methane digester and the electrical generator work together to James L. Larocca (center), chairman of the New York State Energy Research and Development Authority, and David L. Call, dean of the State College of Agriculture and Life Sciences, during a tour of the facility as part of the dedication program held on Oct. 7.

the performance of the digester in terms of operating temperatures and amounts of methane production, among other things. It also closely checks the performance of the electrical generator.

A micro-processor in the milking parlor logs data to be used to evaluate the performance of the precooler, the amount of warm water collected from the compressor, and the energy consumed by the refrigerator.

Commenting on progress made thus far since the project was started in 1980, Walker said, "Our team has made every effort to make the whole package as simple as possible to enable farmers to run the systems with a minimum of time and labor."

Walker added, "From the beginning of the project, Ron Space's interest and enthusiasm have been a source of inspiration for all of us on the research team."



# Brief Reports

## New Traffic Signals Will Cause Delays

Installation of new traffic signals at the intersection of Campus Road and Central Avenue is expected to cause delays in traffic circulation until early November, according to William E. Wendt, director of Transportation Services. The work began Tuesday.

The existing signals will be set on blinking red during the initial work. A Public Safety officer will be stationed at the intersection during peak hours to maintain traffic flow for the duration of the project.

The new signals will have pedestrian warning signs in addition to the vehicular indicators, he said.

## North Campus Gas Lines Job To Be 6-8 Weeks

It will take from six to eight more weeks to replace corroded gas lines to five North Campus living units, according to Henry Doney, director of utilities.

As a result some 720 residents of the units will continue to be without the use of gas-heated clothes dryers, the only use of the gas in the units.

The gas lines to these dryers were shut off this summer when leaks were discovered in the service lines during maintenance excavations of nearby heating lines, Doney said.

He said the soil in the North Campus area is highly corrosive and that the new lines will be of a non-corrosive material. Dorm units effected are the International Living Center, Ujamaa and North Campus 6, 7 and 9.

## Hockey Players' Housing Arrangements Reviewed

Athletic Director Michael Slive said last weekend the university has advised the Ivy League, the ECAC and the NCAA that it is reviewing housing arrangements in the local community for some members of its hockey team which may not be in keeping with rules and regulations of those bodies.

Slive said the matter had come up in the course of Cornell's annual review of compliance with NCAA rules. He said a preliminary review suggests that the arrangements were entered into innocently by the parties involved, and affected only a portion of the team.

President Frank Rhodes said, "I have asked Russell K. Osgood, associate professor of law at Cornell, to review thoroughly all aspects of this matter to assure that we are operating within the rules."

"We will report to the NCAA, the ECAC and the Ivy League as soon as the report has been completed. In fairness to all concerned, we will not have any further comment in the interim period."

## Anthropologist to Talk About South Africa

South African anthropologist David Welsh will give a public lecture on "Recent Developments in South African Politics: More of the Same?" at 4 p.m. Thursday, Oct. 14, in 374 Rockefeller Hall.

His talks will be the first event sponsored by the newly established Committee on Ethnic Studies in the Center for International Studies at Cornell.

According to Milton J. Esman, director of CIS, the committee was organized this fall to bring together faculty members and graduate students from different disciplines who are interested in ethnic and race relations and to facilitate research and teaching on these subjects.

Regular meetings of the committee take place at noon on the second Friday of each month, room to be announced. Special

meetings are held to hear visiting scholars or to review research in progress. Those who are interested in joining the committee or in being on its mailing list may call Joan Irving (256-6370).

A professor at the University of Cape Town, Welsh is a student of Southern African politics and of race relations theory. He is co-author (with Van Zyl Slabbert) of the influential 1979 volume "South Africa's Options: Strategies for Sharing Power."

## Philosopher Kripke to Give Two Lectures on Campus

Philosopher Saul Kripke will give two public lectures on "Reference, Fiction and Existence" during his stay on campus Oct. 21 through 31 as one of Cornell University's Andrew D. White Professors-at-Large.

Both lectures will be in Hollis E. Cornell Auditorium of Goldwin Smith Hall, the first at 7:30 p.m. Thursday, Oct. 21, and the second at 4:30 p.m. Monday, Oct. 25.

Kripke will also take part in a number of seminars and informal discussions with faculty and students during his stay. He will be available to students and faculty by appointment through the Department of Philosophy, telephone 256-5000.

Kripke, professor of philosophy at Princeton University, first became known as a formal logician and during the 1960s his work on modal logic revolutionized the subject. In the early 1970s his highly original philosophical work became known and began to exert a considerable influence. His work has helped to open a field of technical research within logic and had broad application in such areas as philosophy of language, metaphysics, philosophy of science and philosophy of mind and aesthetics.

## The Week in Sports

### Homecoming Action Heavy

Sports action will abound for Cornell fans this Homecoming Weekend, with six games involving Big Red teams scheduled at home. It begins at 3:30 p.m. Friday at the indoor Tennis Bubble when the women's tennis team entertains St. Lawrence, and ends on Saturday afternoon with the varsity football game with Brown at 1:30 p.m.

Saturday morning, the women's field hockey and soccer teams take on their respective counterparts from Brown at 10:30 a.m.—the field hockey game being played at Schoellkopf while the women's soccer contest will be held on Upper Alumni Field.

Three Cornell teams have away competition planned over the weekend. On Friday, the freshman football team travels to New Jersey to play the Princeton frosh, and the women's volleyball squad goes to New York City to participate in the Barnard Invitational. Saturday, the women's cross country team meets both Brown and Dartmouth for the first time ever in Providence.

The varsity football team has followed a pattern similar to last year, as last fall it also dropped its first four contests. The Big Red is hoping that the similarities between 1981 and this season continue on Saturday, since last season Cornell defeated Brown for its first win of the year.

Like the varsity football team, the men's soccer team has also fallen on hard times. Last year the Big Red had a 5-2-1 record, but those numbers are reversed this season as the Red stands at 2-5-1. Junior Klaus Fisher, moved from sweeperback to the forward line two weeks ago, leads the team

## Cornell to Participate In Luce Scholars Program

Cornell is one of 60 colleges and universities invited to participate nationwide in the 1982-83 Luce Scholars Program.

Sponsored by the Henry Luce Foundation, the program was established in 1973 to improve American understanding of Asia. Fifteen Luce Scholars are selected each year on the basis of leadership potential and are assigned to one-year placements in Asian communities under the guidance of leading Asians and are viewed as professional apprentices.

Candidates must be American citizens no more than 29 years of age and the recipients of at least a bachelor's degree by Sept. 1, 1983. Persons specializing in Asian studies or international affairs are not eligible.

For further information about the nomination procedures or to pick up an application, contact Devon Smith, assistant director, Career Center, 256-5221. The deadline for receipt of the initial application to the Career Center is Nov. 10.

## Historian Will Lecture On Black Experience

A Pulitzer Prize-winning historian will lecture on the experiences of blacks in the south over the last 120 years at 8 p.m. Monday, Oct. 25, in the Hollis Cornell Auditorium of Goldwin Smith Hall.

Leon F. Litwack, professor of history at the University of California at Berkeley, will present "Looking Up at Down: The Afro-American Experience in the South Since Emancipation."

Litwack won the Pulitzer Prize in history in 1980 for his book, "Been in the Storm So Long." The book also won the American

in scoring with three goals, while classmate Ted Heinrich has one goal and two assists on the year.

The Cornell lightweight football team has a big game with Princeton this Friday. The Big Red currently sits atop the Eastern Lightweight Football League standings with Princeton at 2-0. Last Friday, the team completed a sweep of the "service academies" with a 14-5 whipping of Army in West Point. Quarterback Paul Freeman ran for one touchdown and passed for another in improving Cornell's record to 3-0 overall, while the Big Red defense stopped the Cadets twice inside the Cornell 15 yard line.

The women's field hockey and soccer teams both take on talented squads from Brown on Saturday. The Bruins have one of the top teams in both the Ivy League and the nation this year in women's soccer, while Brown defeated the Big Red 2-0 last season in field hockey. The women's soccer team, 2-4 overall, split two games last week in blanking Cazenovia (5-0) while being shut out by Harvard (6-0). The field hockey team, having a fine season with a 3-5-1 overall mark thus far, takes a two-game losing streak into this week's play. The Red played Ithaca College tough before losing, 3-1, and also fell to Harvard, 4-0.

There are also home events planned on both Monday and Tuesday. Monday, the women's tennis team entertains Syracuse at 3:30 p.m.—while playing host to Ithaca College the next day—also for a 3:30 start. In addition on Tuesday, the field hockey team meets Brockport at 7:30 p.m. on Schoellkopf Field.

## SAGE CHAPEL

### Roshi Shimano

#### Convocation Speaker

Roshi Edio Tai Shimano will speak at the 11 a.m. Sunday, Oct. 17, Sage Chapel Service. His sermon topic will be "Suffering and Compassion."

Edio Roshi was born in Tokyo, Japan. He studied Zen Buddhism at the Ryutaku Monastery near Mount Fuji and later studied at the University of Hawaii. He came to New York in 1965 and established two monasteries of which he is Abbot.

Music for the service will be provided by the Sage Chapel choir under the direction of Donald R.M. Paterson, university organist and Sage Chapel Choirmaster. Glenn Burdette is the graduate assistant and accompanist.

Book Award in History in 1981. His earliest writing includes "North of Slavery."

He produced and directed the film, "To Look at America," for National Educational Television. He has also been responsible for multi-media presentations on the 1930s and on Afro-American culture in the 1920s.

A Berkeley graduate, Litwack has been member of the faculty there since 1965. He has also taught at the University of Wisconsin, the University of South Carolina, Moscow State University in the Soviet Union and Peking University in the People's Republic of China.

## Hollister Memorial Service To Be Oct. 29

A memorial service for Solomon Cady Hollister, former dean of the College of Engineering, is scheduled for 5 p.m. Friday, Oct. 29, in Sage Chapel on the Cornell campus. Hollister died July 6, at the age of 90.

Hollister was dean of the engineering college for 22 years, from 1937 until his retirement in 1959. Under his leadership, faculty and programs expanded, and a new engineering campus was built. Hollister Hall, which now houses the School of Civil and Environmental Engineering, was named in his honor.

In addition to his achievements as an educator, Hollister made significant contributions as a professional engineer. During World War I he served as chief design engineer in an emergency program that built some of the first practical concrete ships. He also was an innovator in the design of other thin-shell structures, such as boilers and pressure vessels; among his accomplishments was the design and fabrication of the 30-foot-diameter steel penstocks used in Hoover Dam. He is well known for his concrete bridges, including one with an innovative skew-arch design.

Hollister served as president of the American Concrete Institute and the American Society for Engineering Education. He was elected to the National Academy of Engineering and the Hall of Fame of the American Society of Civil Engineers. He was an honorary member of six professional societies, and received honorary degrees from four institutions.

Hollister is survived by his wife, Ada, three children, 10 grandchildren and six great-grandchildren.

Participants in the memorial service will include Andrew Schultz, Jr., the Spencer Olin Professor of Engineering Emeritus and dean from 1963 to 1972, of the College of Engineering; Milton Konvitz, professor emeritus of industrial and labor relations; and Cornell President Frank Rhodes.