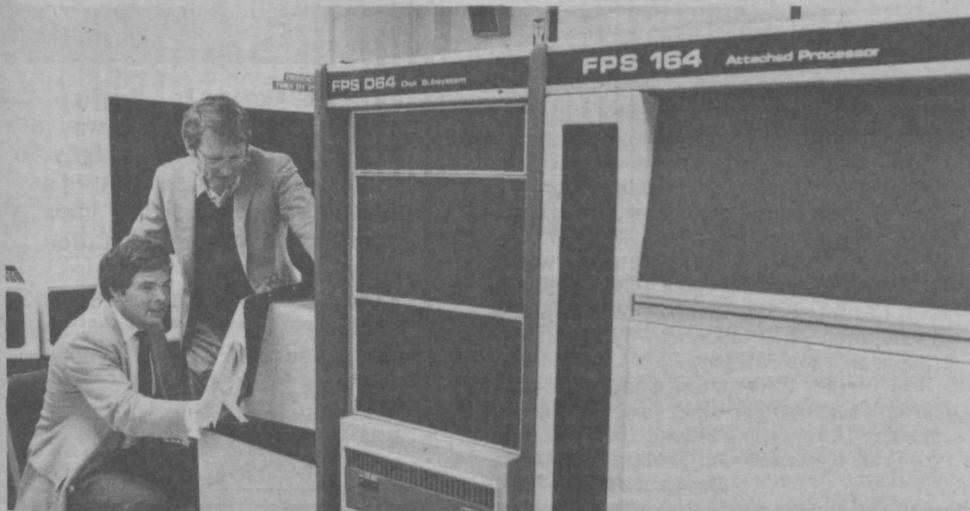


Cornell Chronicle

Volume 14, Number 9

Thursday, October 21, 1982



A busy but most happy day in the life of Nobel Laureate Kenneth G. Wilson finds him (clockwise from upper left) being toasted by colleagues including fellow laureate Hans Bethe (to his right); 'explaining' the formula that led to his fame; at a news conference in late morning, and at work on one of the machines that is so important to his work, with Alec Grimison of Computer Services.

Cornell Physicist Wilson Wins Nobel Prize Computers Important Key to Winner's Work

By ROGER SEGELKEN

From the time his grandfather, a gear expert at M.I.T., induced in an eight-year-old Kenneth G. Wilson a fascination for the potential of machines that make many little calculations and help solve big problems, the latest winner of the Nobel Prize in Physics has been frustrated with the inability of the best and biggest computers to do the job. Even the most powerful number-crunching machines likely to be developed in his lifetime probably will not, he expects, be adequate for the calculating that he and other theoretical scientists need.

But the recognition that comes with winning the most prestigious science prize will bring receptive ears to his plea for vastly increased computing support for the scientific community.

Perhaps, too, will come an eased transition to a new era that the 46-year-old physicist foresees — a time when research will serve not just the demands of government and the military but the needs of a high-technology economy.

"I expect the most practical use (of the studies of phase transition) will be in the context of computer modeling," a suddenly spotlighted Wilson told a Monday morning news conference, hoping to explain to the mythical man-on-the-street the significance of understanding processes that happen, almost unnoticed, on the molecular and atomic level.

"The applications will be in computer

simulation of processes in areas of interest to the energy industry," he predicted, "in the plasma fusion program, in the efforts of the oil industry to model what goes on underground in their oil reservoirs, and in the high technology economy in general as we face new kinds of materials.

"There are enormously complex problems and industry has to do computer modeling of these problems, for example, in underground oil — because they can't do experiments — or in plasma fusion — because one tokamak is enormously expensive and you can't build a thousand tokamaks to try different arrangements,

different engineering ideas. All this has to be done by computer modeling, but the computer modeling is extraordinarily difficult."

Instrumental in investigating and proving at Cornell the talent of powerful computers (including array processors capable of millions of calculations per second), Wilson has in recent years expanded to a national scale his quest for bigger computers and better science.

"During the 1960s, when I was building my basic ideas, I was using computers some," Wilson recalled, "but mostly I was asking myself the question, in these ex-

Related Story on Page 3

traordinarily complex problems how could one use the computer — if there was a computer powerful enough to be really applicable? During that period there were no computers that were in any way capable of handling the kind of problems I was thinking about. But just the mental rigor of asking how one could put this problem on the computer was enormously helpful to me. The whole style on which my ideas developed was based on that."

"Now we're finding that, in a few cases, we can do the calculations and, hopefully, in a lot more cases, we will be able to do the calculations when the full potential of the present computer revolution is realized," Wilson continued. "This is one of the things that I'm working on at the national policy level, to get people to realize the importance of computers as they become very much more powerful than they are today."

Advancing one field alone — theoretical physics — will require computing support to the tune of \$100 million a year, Wilson estimates. "This, of course, is very difficult with the present hard times," he acknowledged. "I hope the prestige of the prize will help me get people — not necessarily to give \$100 million — but to look carefully at the problems I've been discussing and to see if we can't get them worked out."

He has no intention of retiring, Wilson told one questioner who was curious about

Former Winners from Cornell

Here is a list of former Nobel Prize winners associated with Cornell University:

Roald Hoffmann, faculty, Chemistry, 1981.

Sheldon Glashow '54, Physics, 1979.

Steven Weinberg '54, Physics, 1979.

Robert W. Holley, faculty, Medicine, 1968.

Hans A. Bethe, faculty, Physics, 1967.

Manfried Eigen, Andrew D. White

Professor-at-Large, Chemistry, 1967.

Richard P. Feynman, former faculty, Physics, 1965.

Peter B. Medawar, Andrew D. White

Professor-at-Large, Physiology & Medicine, 1960.

George W. Beadle '31, Physiology, 1958.

Vincent du Vigneaud, faculty, Chemistry, 1955.

John R. Mott 1888, Peace, 1946.

James B. Sumner, faculty, Chemistry, 1946.

Isador Isaac Rabi '19, Physics, 1944.

Peter J.W. Debye, faculty, Chemistry, 1936.

Hermann J. Muller, Did graduate study at Cornell, Physiology & Medicine, 1946.

Pearl S. Buck, Did graduate study at Cornell, Literature, 1938.

Continued on Page 6

Careers Seminars Offer Job Hints

Answers 'How Can I Get from Here to There?'

"You need to be happy in what you're doing so don't take the first job that comes along unless it's what you really want," was the advice Rosemarie Bobnick, administrative aide, gave at a Cornell Careers Seminar on Tuesday, Oct. 12.

Bobnick, who works in the College of Agriculture and Life Sciences, and Carol Lang, personnel manager in the Hotel School, met with the group to share experiences and give some advice on "How can I get from here to there?", which was the theme of the University Personnel Services sponsored seminar.

Bobnick, using her own Cornell career as a benchmark, told participants that she reentered the workforce after having been at home for several years. Her first job was

with the Day Care Council, for which she worked for four years.

She came to Cornell in 1977 as a reference clerk in the Development Office, a position she said she outgrew in about four months.

"I took a course in typing and in business at the Hotel School to improve my skills and moved into an administrative aide position in Development," She said.

In two years she was ready for another challenge and started looking for another job.

"It took me a year to find what I wanted," she said.

In answering the question, "How do I get from here to there?", Bobnick's tips were: Improve your skills and learn new ones; be aware of the skills supervisors are looking

for; be positive in interviews; don't be discouraged by turndowns and be willing to learn.

Some of the courses Bobnick recommends, which are offered through University Personnel Services, are Excel, the accounting seminar and the Improved Writing Skills seminar.

Lang, in her presentation, told the group that interviews are a good experience and that it is an opportunity to "sell yourself."

Lang said that when one fills out a Transfer Application it should be typed and that a cover letter should be attached along with an updated resume.

"The cover letter gives you an opportunity to expand on your resume and to explain why you feel you're suited for the job," she said.

"When you have an interview set up," Lang said, "set aside some time to think about the job description and about questions you might have. Know in advance where you're going and don't be late!"

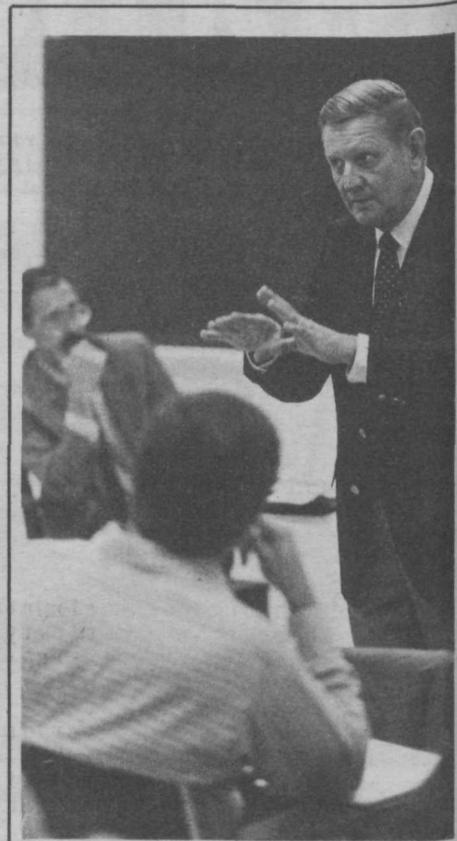
Some courses Lang recommended were Effective Communication and Assertiveness Training.

Cornell Careers is a career development program sponsored by University Personnel Services. It is designed to help employees explore job opportunities at Cornell and to provide an overview of realistic opportunities for advancement. Each session highlights a general job category.

The next Cornell Careers seminar will be at 12:15 p.m. Tuesday, Nov. 9, in 202 Uris Hall. Carol O'Brien, director of university development, will talk about the administrative aide job category.

For further information about Cornell Careers seminars or other programs offered by University Personnel Services, call Staff Relations and Training, 256-7400.

Barbara Jordan-Smith



Clifton C. Garvin Jr., chief executive officer of Exxon, was in action from morning 'til night during his day on campus Oct. 14 as Cornell's third Hatfield Fellow. A class in industrial organization taught by George A. Hay, professor of law and economics, heard Garvin's views in the morning. His major address in the afternoon, "Getting Past the Future," drew a full house to the Uris Hall Auditorium.

Statistical Computing Users' Forum Organized on Campus

In response to the growing interest in statistical computing at Cornell, the Statistical Computing Support Group in Cornell Computer Services is organizing a campus-wide Statistical Computing User's Forum (SCOF). Membership is open to all members of the Cornell community interested in statistical computing activities.

The intent is to establish a forum conducive to the exchange of ideas among researchers involved in projects requiring statistical computing applications, and to facilitate the interface between users and CCS staff, according to Agelia Velleman of the Computer Services staff. "We hope that SCOF will help the statistical computing community make more efficient use of resources, obtain helpful hints from col-

leagues when trouble spots are encountered in ongoing research, and generally learn more about what's possible for those interested in unique and creative applications within this fast-paced technological environment," Velleman said.

The first meeting is scheduled for Wednesday Oct. 27, 3:30 p.m. in G14 Uris. Joe Francis, professor of rural sociology, will be the guest speaker. He will discuss the use of Terak microcomputers to enter and transfer data to the IBM 370 for analysis, and retrieving files from the IBM 370 to a Terak for analysis using Minitab. After a question and answer period, the Statistical Computing Support Group will briefly describe the services it provides.

Retirement Plan Information Mailed to Employees

Information concerning participation in the Cornell University Retirement Plan for endowed employees (CURP), funded through TIAA/CREF, was mailed to all eligible endowed non-exempt employees this past week.

The packets were distributed by University Personnel Services to help employees prepare for the information and enrollment sessions scheduled during the weeks of Oct. 25 and Nov. 1, and to individually notify employees of their scheduled meetings.

The sessions have been scheduled during regular working hours. Special arrangements have been made to accommodate the needs of employees whose workshifts do not fall between the hours of 8 a.m. and 4:30 p.m.

Anyone who is a regular, non-exempt, endowed employee of Cornell and has not received the informational mailing should immediately contact Employee Benefits, University Personnel Services, at 256-3936.

Each of the packets included an "Information and Enrollment Session Registration Ticket" with the time and date the recipient should attend one of the 40 sessions. If an employee cannot attend the session for which he or she is scheduled, that person should call the Employee Benefits Section to arrange another session.

Also included in each informational packet were summaries of the old and new non-exempt retirement plans as well as a "Question and Answer" pamphlet which addresses such questions as "What is 'cred-

ited service'?" and "How many years of service must I complete before my retirement benefit under the new plan is vested?" For those who have been employed at Cornell for more than three years, an estimate of their accrued benefit through Dec. 31, 1982, was also included. The figures are estimates; these employees will receive notification of the actual amounts as soon as the exact salary figures for 1982 are available.

In order to complete the CURP enrollment application, employees will be required, at their scheduled sessions, to furnish proof of age: driver's license, birth certificate or other identification containing date of birth. Since the new plan carries a death benefit, the information packets directed that employees also be prepared to list the birthdate of any beneficiary they choose to name.

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
Assistant to the Dean (Summer Session, Extramural and Related Programs)
Applications Programmer (Division of Nutritional Sciences)
Administrative Supervisor II (University Libraries, Administrative Operations)
Applications Programmer I (Vet. Medical Computing Facility)
Personnel Associate II (Director's Office Admin, CALS, Geneva, NY)

Clerical
Office Assistant, GR18 (Public Affairs Records)
Secretary, GR18 (University Health Services)
Office Assistant, GR16 (Physical Education & Athletics)
Office Assistant, GR16 (Media Services)
General Services
Cook, SO22 (Cornell Dining)
Custodian, SO16 (Varied)

Driver/Groundworker, SO18 (Residence Life)
Technician
Electronic Technician, GR24 (Computer Services)
Technician, GR21 (Biochemistry, Molecular & Cell Biology)
Temporary
Temporary Research Support Spec., T-4 (NYS Sea Grant Extension Program)
Academic
Assistant Professor (Tenure Track (English Department))
Assistant/Senior Assistant Librarian (Labor/Management Documentation Center, ILR Library)
Assistant or Associate Professor, Properties Management (Hotel Administration)

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.

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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.

'Phase Transitions' Key to Wilson's Nobel Prize

Explores How Bulk Matter Undergoes Structural Changes

The following paper that deals with Kenneth Wilson's scientific work, its evolution and his own background was prepared after fellow members of his department had received word of his high honor:

The Nobel Prize in physics has been awarded to Professor Kenneth G. Wilson of Cornell University to recognize the remarkable discoveries he has made in understanding how bulk matter undergoes sudden and profound structural changes. Such changes are called phase transitions, the most familiar example of which is the melting of ice, a crystalline structure which changes at a precise temperature into a structureless liquid. In the liquid "phase" there is absolutely no hint that this same substance—water—can assume a crystalline "phase" when it is cooled.

Physicists have sought a detailed understanding of such phase transitions for over a century. Their work has revealed many new phenomena of this sort. For example, they found that magnets suddenly lose their magnetism when heated above a certain high temperature, and return to the magnetic state when cooled below that same temperature. They also discovered many substances that change their ability to conduct electricity when cooled below a characteristic temperature.

They eventually realized that the manner in which these substances change their properties as they pass through a large variety of phase transitions show remarkable regularities. But a satisfactory theoretical understanding of those facts proved to be elusive. Despite some important insights, physicists were unable to explain how these remarkable phenomena displayed by bulk matter result from the movements of atoms and molecules, and the interactions between them.

Wilson's work revolutionized this subject. He invented powerful mathematical concepts and techniques which, for the first time, permitted detailed calculations from fundamental principles that correctly accounted for many of these experimental observations. An essential ingredient of his theory is that it provides an understanding as to why the changes that occur in a phase transition show regularities that actually do not depend on the detailed properties of the substance in question.

As with virtually all scientific breakthroughs, Wilson's contributions did not spring full-born out of a vacuum. Seminal insights that played an important role in his own thinking were provided by the earlier work of Murray Gell-Mann of the California Institute of Technology, Francis Low of the Massachusetts Institute of Technology, Benjamin Widom of Cornell University and Leo Kadanoff of the University of Chicago.

Michael Fisher of Cornell, a renowned authority on phase transitions, provided Wilson with invaluable criticism and advice at all stages of his work, and collaborated with Wilson in one of the most striking applications of the new ideas.

Kenneth Wilson was born in 1936 in Waltham, Mass., the son of a very distinguished chemist who taught at Harvard University throughout his career. Wilson was an undergraduate at Harvard College, and obtained his doctorate in 1961 at the California Institute of Technology, where he was a student of Gell-Mann. He was then a Junior Fellow in Harvard's Society of Fellows, and joined Cornell's department of Physics in 1963. He has held a professorship since 1970, and the James A. Weeks Chair in Physical Sciences since 1974.

He has won the American Physical Society's Heinemann Prize, which is this country's most prestigious prize in theoretical physics, and the Boltzmann Medal in statistical mechanics awarded by the International Union of Pure and Applied Physics. Wilson was elected to the National Academy of Sciences in 1975. In 1980 he



Two other Nobel laureates on Cornell's faculty, Roald Hoffmann, chemistry, 1981, left, and Hans A. Bethe, physics 1967, congratulate this year's winner, Kenneth Wilson.

shared Israel's \$100,000 Wolf Prize in Physics with Fisher and Kadanoff.

Wilson's research in physics has not been confined to the problems of phase transitions in solid state and condensed matter physics. He is a member of the Floyd A. Newman Laboratory of Nuclear studies, whose principal purpose is the study of elementary particles, a subject which, at first sight, has no relationship to phase transitions. But Wilson recognized deep and hitherto unperceived analogies between the phenomena revealed by phase transitions and certain aspects of elementary particle physics, a recognition that was largely responsible for his Nobel Prize winning research. In turn, these insights have had a strong influence on his work on elementary particles.

In elementary particle physics Wilson has scored two major breakthroughs. He developed techniques for analyzing the structure of elementary particles at the shortest distances accessible to experimental probes. Secondly, he invented a novel formulation of the field theory that describes the forces that bond quarks, the objects that are believed to be the basic building blocks of atomic nuclei. Both of these discoveries have played a central role in the evolution of elementary particle physics in the last decade.

The breadth and significance of Wilson's contributions demonstrate that it is still possible for an individual to master vast areas of modern physics—that narrow specialization is not the only path to success in research.

Rhodes Applauds Wilson's Award

President Frank Rhodes this week had words of high praise for Professor Kenneth Wilson's achievement:

"I know that I speak for the entire Cornell community in expressing great pride and offering heartiest congratulations to Professor Wilson for his tremendous achievement in winning the 1982 Nobel Prize in Physics.

"His 19 years as a member of the Physics faculty have been distinguished by the many awards he has won, and this latest high honor is a source of enormous satisfaction to all of us."

Private Funds to Be Used for Gorge Repairs

Federal Aid, There for Previous Floods, No Longer Available

With little hope now of gaining federal government aid to repair the flood-damaged trails and bridges in Cascadilla gorge, that natural area's caretaker, Cornell Plantations, will use private funds to begin restoration work in the spring of 1983.

Until then, the scenic link between downtown and Colletgetown remains treacherous

and is closed, on orders of Cornell Public Safety, from Court Street to Eddy Street.

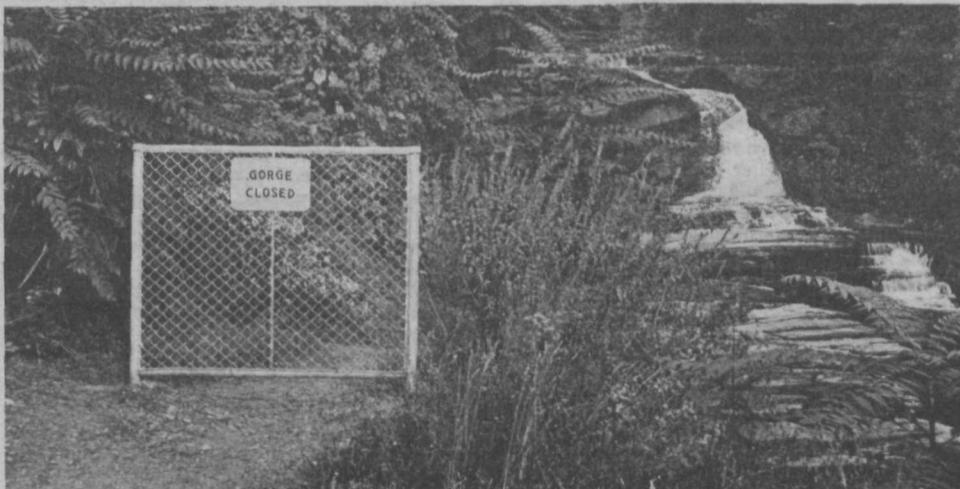
Repairs to the trail system, parts of which are more than 50 years old and were washed away during flooding in October, 1981, are expected to cost approximately \$100,000. Some of the expense will be covered by the original maintenance en-

dowment for the gorges, but Cornell Plantations is seeking additional financial assistance to complete the work.

In the past, federal disaster relief funding has been available to repair flood damage in the two streams that pass through the campus, Fall Creek and Cascadilla Creek. Government aid is helping the City of Ithaca repair damage around Six Mile Creek and Cascadilla Creek in the downtown area. Cornell Plantations' attempts to obtain government assistance, however, were unsuccessful.

Rough trail conditions in the gorge have made clean-up efforts unusually difficult, acknowledged Plantations Assistant Director Tim Smalley, noting that everything from candy wrappers and soda bottles to shopping carts and garbage cans is tossed into the creek by thoughtless passersby. A mountaineering class in the Department of Physical Education and Athletics has taken over from the Outing Club the task of cleaning litter from Cascadilla Gorge.

Reconstruction of trails, bridges, stone stairways and safety railings will begin as soon as the frost has left the ground next spring, according to Smalley. (The gorges are normally closed to the public during the winter months because of icy conditions).



A barricade clearly tells that the gorge trail is closed.

Calendar

All items for publication in the Calendar section, except for Seminar notices, must be submitted (typewritten, double-spaced) by mail or in person to Fran Apgar, 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 (lectures, colloquia, etc.) ALL DEADLINES WILL BE STRICTLY ENFORCED.

*—Admission charged.

Announcements

Academic Survival Workshops

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

Overseas Study

Representatives from several foreign institutions will be on campus to interview students for overseas study in their junior year. The schedule for the visits is: Oct. 25, University of Glasgow; Oct. 26, British and European Studies Group; Oct. 28, University of Copenhagen; Oct. 28, Inter-Study, Great Britain; Oct. 29, University of Kent at Canterbury. For further information call the Career Center at 256-5222.

Intramural Swimming (Men, Women)

Deadline on entries is Tuesday, Nov. 2 at 4 p.m. in the Intramural Office, Grumman Squash Courts Bldg. across from Teagle Hall. Trial Heats: Tues., Nov. 9 at 5 p.m. in the Teagle Pool. Finals: Thursday, Nov. 11 at 5 p.m. in the Teagle Pool. Each team may enter no more than 2 individuals in any individual event. Each individual may enter up to 3 events but no more than 2 of these may be individual events. Relay: each team may enter no more than 1 team in each relay.

Centerpeace Peaceline

Information and referrals for peace work, environmental action and social justice groups. A Newsletter/calendar is published by the group every other week. Located in 319 Anabel Taylor Hall, 11 a.m. to 3 p.m. Monday through Friday.

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 on-going 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. 21, 12:15 p.m. Uris Hall 202. Sociology Colloquium: "Politics and Science in National Science Foundation Research Funding," James Zuchies, Associate Director, Office for Research, Cornell University.

Oct. 21, 4:30 p.m. Space Sciences 105. Astronomy and Space Sciences: "New Results on Old Clusters," Dr. Gary Da Costa, Department of Astronomy, Yale University.

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.

Thursday

Oct. 28, 12:15 p.m. Uris Hall 202. Sociology Colloquium: "Modernity, Motivation and Motherhood: How Women Learned to Control Their Fertility in Costa Rica," J. Mayone Stycos, Director, International Population Program, Cornell University.

Oct. 28, 4:30 p.m. Space Sciences 105. "Magnetospheres of Jupiter and Saturn," Dr. Jack Connerney, NASA Goddard Space Flight Center.

Friday

Oct. 29, 3 p.m. Malott 251. Public Affairs Colloquium at the Graduate School of Business and Public Administration presents E.S. Savas,

Assistant Secretary of the Department of Housing and Urban Development and Director of Policy Development and Research, who will analyze the Reagan Administration's urban policy and what it hopes to achieve. Dr. Savas, on leave from the Columbia University Business School, is considered one of the chief architects of this program.

Oct. 29, 4:30 p.m. Corson Hall, Morison Seminar Room. Applied Mathematics/Biomechanics Colloquium: "Mechanical Aspects of Cell and Tissue Morphogenesis," Dr. George Oster, University of California, Berkeley.

Dance

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

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

Wednesday

Oct. 27, 7:30 p.m. Straight Memorial Room. Cornell International Folk Dancing. Teaching 7:30-8:30 p.m.; 8:30-10:45 p.m. requests. Beginners and dancers at all levels.

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

Exhibits

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.

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

Herbert F. Johnson Museum "Images of Dignity: A Retrospect of Charles White" through Oct. 24; "The World of Donald Evans" through Oct. 31; "Francisco Torres: Field of Action" through Oct. 31. Museum hours are 10 a.m.-5 p.m. Tuesday through Sunday.

Films

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. "Horsefeathers" (1932), directed by Norman Z. McLeod, with the Marx Bros. Shown with: "College" with Buster Keaton. Also shown: "Captain Marvel #4."

Monday

Oct. 25, 9 p.m. *Uris Hall Auditorium. "End of Innocence" (1957), directed by Leopoldo Torre-Nilsson, with Elsa Daniel. Shown with: "To Parsifal."

Tuesday

Oct. 26, 8 p.m. *Uris Hall Auditorium. "Riddles of the Sphinx" (1977), directed by Peter Wollen/Laura Mulvey. Shown with "Sigmund Freud's Dora," directed by Anthony McCall.

Oct. 26, 4:30 p.m. 230 Rockefeller Hall, "Borobudur: Cosmic Hountain," sponsored by the Southeast Asia Film Series.

Wednesday

Oct. 27, 9 p.m. *Uris Hall Auditorium. "That Obscure Object of Desire," (1977), directed by Luis Bunuel, with Fernando Rey, Carole Bou-

quet, Angela Molina. Shown with "L'Etoile de Mer," directed by Man Ray.

Thursday

Oct. 28, 8 p.m. *Uris Hall Auditorium, "Fail Safe," (1964), directed by Sidney Lumet, with Henry Fonda, Walter Matthau. Shown with "Nick Mazzucco: Biography of an Atomic Vet," Cosponsored by the Nov. 11 Convocation.

Friday, Saturday

Oct. 29, 9:30 p.m.; Oct. 30, 7 & 9:30 p.m. *Uris Hall Auditorium, "Cat People," (1982) directed by Paul Schrader with Natassia Kinski, Malcolm McDowell.

Oct. 29, midnight; Oct. 30, midnight *Uris Hall Auditorium, "Phantom of the Paradise," (1974) directed by Brian De Palma with Paul Williams, Jessica Harper.

Sunday

Oct. 31, 10 p.m. and midnight *Uris Hall Auditorium, "Carrie" (1976) directed by Brian De Palma with Sissy Spacek, Amy Irving, John Travolta. Shown with "Adventures of Captain Marvel"

Oct. 31, 8 p.m. *Uris Hall Auditorium, "Massacre at Central High (1976) directed by Renee Doalder.

Lectures

Thursday

Oct. 21, 7:30 p.m. and Monday, Oct. 25, 4:30 p.m. Hollis E. Cornell Auditorium, Goldwin Smith Hall, A.D. White Professors-at-Large Program, "Reference, Fiction, and Existence," Saul A. Kripke, professor of philosophy, Princeton University.

Oct. 21, 12:20 p.m. 102 West Ave' Southeast Asia Program Thursday brown-bag seminar: "Genocide and Extra-Judicial Execution in Cambodia: 1975-1978," David Kaxk, 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.

Friday

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 Ribdove, Chairman of the North American Conference on Ethiopian Jewry. Lecture and slide show sponsored by the Student Struggle for Oppressed Jewry.

Monday

Oct. 25, 7:30 p.m. One World Room, Anabel Taylor Hall. "Human Transformation and World Community," David Let Davidson, sponsored by the Center for World Community and IRIM.

Oct. 25, 8 p.m. Hollis Cornell Auditorium, Goldwin Smith Hall, Committee on University Lectures, "Looking Up at Down: The Afro-American Experience in the South After Emancipation," Leon F. Litwak, professor of history, University of California at Berkeley. Presented in cooperation with the Africana Center, History Department and ILR.

Wednesday

Oct. 27, 4:30 p.m. Hollis Cornell Auditorium, Department of English, "Madwomen and their Languages: Some Issues in Feminist Literary Criticism," Nina Baym, director of the School of Humanities, University of Illinois. Cosponsored by the James H. Becker Lecture Fund and the Department of Women's Studies.

Thursday

Oct. 28, 4:30 p.m. Hollis Cornell Auditorium, Committee on University Lectures, "The Structures of Romantic Poetry," Jack Stillinger, professor, Department of English, University of Illinois at Urbana. Cosponsored by the Department of English.

Friday

Oct. 29, 4:30 p.m. Hollis E. Cornell Auditorium, The James J. Gibson Lecture in Experimental Psychology, "The Perception of a Stable Environment," Hans Wallach, Swarthmore College. The second in a series of lectures in honor of James J. Gibson endowed by his colleagues, friends and family.

Meetings

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.

OCTOBER						
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Sunday

Oct. 24, 5-8 p.m. One World Eoom, Anabel Taylor Hall. Israel Student Organization.

Music

Fall Tonic

Fall Tonic, a jamboree of small collegiate singing groups, will be held at 8:30 p.m. Saturday, Oct. 23, in Statler Auditorium. The event is sponsored by the Cornell Hangovers, a 12-voice ensemble from within the Glee Club.

Tickets, at \$3 each, are on sale at Willard Straight Ticket Office, the Lincoln Hall Ticket Office and will be on sale at the door the night of the concert.

Fall Tonic was an annual event at Cornell during the '50s and '60s, when a cappella singing—vocal music performed without instrumental accompaniment—was popular on campuses across the nation. It was revived by the Hangovers three years ago.

This Fall Tonic will be a special one for the Hangovers as the group will be celebrating its 15th birthday. Joining them in the festivities of the evening will be the Radcliffe Pitches, the Dartmouth Aires and the Opportunes of Harvard-Radcliffe.

Symphonic Band Concert

The Cornell Symphonic Band, 100 members strong, will present its annual fall concert at 4 p.m. Sunday, Oct. 24, in Bailey Hall. The public is invited to attend without charge.



The Gwandhaus Orchestra of Leipzig, Germany, under the direction of Kurt Masur (above), will perform at 8:15 p.m. Wednesday, Oct. 27, at Bailey Hall. Internationally known concert master Karl Suske will be violin soloist. Tickets for the concert, which will include violin concerto in D Major, Op.61 by Beethoven and Symphony No. 1 in D Major by Mahler, are on sale at the Lincoln Hall Ticket Office (telephone 256-5144).

The ensemble will play Folk Dances by Dmitri Shostakovich, Circus Overture by William Schuman, Concertante for Wind Instruments by Norman Dello Joio, Hymn to Yerevan by Alan Hovhaness, Sinfonia Nobilissima by Robert Jager, Beguine d'Amour by Richard Jackboice and Merry Mount Suite by Howard Hanson. Conductor of the Symphonic Band is Marice Stith, professor of music at Cornell and director of bands since 1966. Assisting him this year is Christopher Been, a doctoral candidate in the music department.

Thursday
Oct. 21, 4:30 p.m. 116 Lincoln Hall. Carl Schachter, professor of music at Queen's College, NYC, will speak on "Beethoven's Sketches for the First Movement of His 'Spring' Sonata, Opus 24."

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

Oct. 23, 8:30 p.m. *Statler Hall. Fall Tonic Concert by the Glee Club's Hangovers.

Sunday
Oct. 24, 4 p.m. Bailey Hall. Cornell Symphonic Band, conducted by Marice Stith. Works of Schuman, Shostakovich, Dello Joio, Jackboice, Hovhaness, Jager.

Wednesday
Oct. 27, 8:15 p.m. *Bailey Hall. Leipzig Gewandhaus Orchestra conducted by Kurt Mazur. Works of Mahler, Beethoven.

Saturday
Oct. 30, 8:15 p.m. Barnes Hall. Student Recital: Christopher Kokkinos, piano. Works of Handel, Beethoven, Chopin, Liszt.

Sunday
Oct. 31, 4 p.m. Barnes Hall. Lynden Cranham, cello, and Mary Ann Covert, piano. Works of Schumann, Brahms, von Weber, Rachmaninoff.

Religious Activities

Monday
Oct. 25, 7:30 p.m. Anabel Taylor G-34. Course on "Kabbalah." Please register in advance in the Hillel Office. Minimum enrollment is five people.

Wednesday
Oct. 27, 7:30 p.m. Call 273-5775 for time and place. Course on "Basic Judaism."

Religious Services

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.

Lutheran
Every Sunday, 109 Oak Ave. 9:30 a.m. Sunday School; 10:45 a.m. Worship Services.

Friday
Oct. 22, 6 p.m. Anabel Taylor Chapel, Erev Shabbat Services (Reform).
Oct. 22, 6 p.m. Anabel Taylor Founders Room. Erev Shabbat Services (Conservative/Egalitarian).

Saturday
Oct. 30, 9:15 a.m. Anabel Taylor Edwards Room. Shabbat Services (Orthodox).
Oct. 30, 10 a.m. Anabel Taylor Founders Room. Shabbat Services (Conservative/Egalitarian).

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.

Seminars

Agricultural Economics: "Physical Examination for Rural Financial Markets in Low Income

Countries," Dale Adams, Ohio State University, 4 p.m. Wednesday, Oct. 27, 401 Warren Hall.

Agricultural Engineering: "Finite Element Analysis of the Teat of the Dairy Cow," Richard Gates, graduate student, and "Pressure Measurements in the Cow's Teat During Milking," Stephen T. Mahan, graduate student, 12:20 p.m. Monday, Oct. 25, O.C. French Seminar Room, 400 Riley-Robb Hall.

Agronomy: "Osmotic Adjustment in Temperature Pasture Grasses and in Rice," Estone Y. Sambo, University of Malawi, 4 p.m. Tuesday, Oct. 26, 135 Emerson Hall.

Atomic & Solid State Physics: Solid State Seminar: "The Kapitza Resistance of Platinum in Liquid 3He," K. De Conde, Princeton University, 4:30 p.m. Tuesday, Oct. 26, 700 Clark Hall.

Atomic & Solid State Physics: Theory Seminar: "Diffusion and Phonon Localization in Random Systems," M.J. Stephen, Rutgers University, 1:15 p.m. Thursday, Oct. 28, 701-702 Clark Hall.

CAPE: "Inter-Industry-Technology Flows and Productivity Growth," F.M. Scherer, Swarthmore College, 3 p.m. Friday, Oct. 22, 498 Uris Hall.

Center for Applied Mathematics: "Weighted L1-spaces and the Helmholtz Operator," Guy Johnson, Syracuse University and CU, 4:30 p.m. Friday, Oct. 22, 165 Olin Hall.

Biochemistry: "Principle of Bacterial Tests for the Detection of Potential Carcinogens or Antineoplastic Compounds," Patrice Moreau, 12:20 p.m. Monday, Oct. 25, 125 Riley-Robb.

Biological Sciences: "Seed Size, Dispersal, and the Rise of the Angiosperms," Bruce H. Tiffney, Yale University, 11:15 a.m. Friday, Oct. 22, 404 Plant Science.

Biophysics: "Facile Interconversions of Cluster Types and Identification of Discrete Cluster Subsites in Iron-Sulfur Proteins," Helmut Beinert, University of Wisconsin, 4:30 p.m. Wednesday, Oct. 27, 700 Clark Hall.

Boyce Thompson Institute: "Stable Integration of Foreign DNA Into Chromosomes of a Blue Green Alga," John Williams, BTI, 3:15 p.m. Wednesday, Oct. 27, BTI Auditorium.

Chemical Engineering: "The Interaction of Hydrogen and Hydrocarbon Molecules with the Ir(100) - (1x2) Surface," W. Henry Weinberg, California Institute of Technology, 4:15 p.m. Tuesday, Oct. 26, 145(A) Olin Hall.

Design and Environmental Analysis: "Stress at Work," Sandra Kirmeyer, 4:30 p.m. Monday, Oct. 25, 317 Martha Van Rensselaer.

Ecology and Systematics: "The Essence of Cladism," David L. Hull, University of Wisconsin, 4:30 p.m. Wednesday, Oct. 27, Morison Seminar Room, Corson Hall.

Floriculture and Ornamental Horticulture: "Fall Planting—The Nursery Industry's Latest Promotion," George L. Good, 12:15 p.m. Thursday, Oct. 21, L.H. MacDaniels Lecture Room, 37 Plant Science.

Food Science: "Degradation of Food Additives," Charles Warner, Food and Drug Administration, 4:30 p.m. Tuesday, Oct. 26, 204 Stocking Hall.

General Chemistry: "The Inorganic Biochemistry of Cytochrome c Oxidase," S.I. Chan, California Institute of Technology, 4:40 p.m. Thursday, Oct. 21, 119 Baker Laboratory.

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

Geological Sciences: "Renormalization Groups and Electrical Conductivity of Earth's Mantle," T. Madden, MIT, 4:30 p.m. Thursday, Oct. 28, 205 Thurston Hall.

JUGATAE: "Effects of Agricultural Diversification on the Interactions Among Dry Beans, Weeds, and Insects," David Andow, 4 p.m. Monday, Oct. 25, 100 Caldwell Hall.

Library Research: "Faculty and Graduate Student Use of Library for Research," Olin Reference Department Staff, 10:30 a.m. Thursday, Oct. 28, 214 Olin Library. The program will be repeated at the same time Tuesday, Nov. 2.

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 Hall.

Materials Science and Engineering: "Environmentally Induced Hydrogen Cracking of Steel," Brian Wilde, U.S. Steel, 4:30 p.m. Thursday, Oct. 28, 140 Bard Hall.

Mathematics (Olivetti Club): "The Evolution of Determinants," Bruce Magurn, University of Oklahoma, 4:30 p.m. Tuesday, Oct. 26, 328 White Hall.

Mechanical and Aerospace Engineering: "Turbine Rotor-Stator Interaction in an Aircraft Gas Turbine," Robert P. Dring, United Technologies Research Center, 4:30 p.m. Tuesday, Oct. 26, 282 Grumman.

Microbiology: "Production of Intestinal

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

Microbiology: "Foodborne Pathogens of Recent Significance," Michael P. Doyle, Food Research Institute, 4:30 p.m. Thursday, Oct. 28, 124 Stocking Hall.

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

Natural Resources: "Biogeochemical Analysis of Lodgepole Pine Ecosystems," Tim Fahey, 4 p.m. Thursday, Oct. 28, 304 Fernow.

Neurobiology and Behavior: "Regulation of Expression of Opioid Peptide Genes in Mouse, Rat and Man," Ed Herbert, University of Oregon, 12:30 p.m. Thursday, Oct. 21, Robert S. Morison Lecture Hall, Seeley G. Mudd Hall.

Neurobiology and Behavior: "Behavioral Measurement of Visual Acuity in Infants and Young Children," Velma Dobson, University of Washington, 12:30 p.m. Monday, Oct. 25, Robert S. Morison Lecture Hall, Seeley G. Mudd Hall.

Operations Research: "How to Use Renewal Sequences as Building Blocks to Generate Processes with Long Range Dependence," Murad S. Taqqu, 4:30 p.m. Tuesday, Oct. 26, 315 Upson.

Pharmacology: "Isolated Patch Recording of Reconstituted Ion Channels," David Tank, 4:30 p.m. Monday, Oct. 25, D-105 Schurman Hall, Vet. College.

Plant Pathology: "Molecular Hybridization Technology: Application to Plant Virology," P.F. Palukaitis, 4:30 p.m. Tuesday, Oct. 26, 404 Plant Science.

Psychology: "Some Aspects of Language Representation in the Brain: Evidence from Aphasia," Edgar Zurif, Cornell Medical School, 3:30 p.m. Friday, Oct. 22, 202 Uris Hall.

Reproductive Physiology-Endocrinology: "Sheep Sex—Controlling Frequency and Efficiency," Doug Hogue, 4:30 p.m. Wednesday, Oct. 27, 348 Morrison Hall.

Statistics: "Efficacy and Safety of a New Design For Randomized Clinical Trials," Ned Glick, University of British Columbia, 3:30 p.m. Wednesday, Oct. 27, 300 ILR Conference Center.

Theoretical and Applied Mechanics: "Reflections from Obliquely Incident Tsunami," George Carrier, Harvard University, 4:30 p.m. Thursday, Oct. 28, 205 Thurston Hall.

Toxicology: "USCS Investigations of Hazardous Waste Sites in New York State," Richard Novitzki, US Geological Survey, 12:20 p.m. Friday, Oct. 22, 100 Savage Hall.

Toxicology: "Implications of Toxicological Data in Risk Assessments," Perry Gehring, VP of Agricultural Chemicals Research & Development and director of Health and Environmental Sciences, USA, Dow Chemical USA, 3 p.m. Thursday, Oct. 28, 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.

Vegetable Crops: "Prospects for New York Agriculture in the 1980s," K.L. Robinson, 4:30 p.m. Thursday, Oct. 28, 404 Plant Science.

Sports

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.

Thursday
Oct. 28, 6 p.m. Helen Newman. Women's Volleyball/Colgate.

Friday
Oct. 29, 7:30 p.m. Schoellkopf. Men's Frosh Football/Army.

Saturday
Oct. 30, 10:30 a.m. Schoellkopf. Women's Varsity Field Hockey-Pennsylvania.

Oct. 30, 1:30 p.m. *Schoellkopf. Men's Varsity Football/Merchant Marine.

Theater

Theatre Cornell's general manager Ellen Kennedy has announced Theatre Cornell will produce the regional premier of Reynolds Price's "Early Dark."

which will be the third in a series of productions dealing with the theme of the Americana Festival: Illusions of the American Dream. It will play in the Willard Straight Theatre Nov. 4-6, 11-14 and 19-30 and will replace "A Streetcar Named Desire" in the Theatre Cornell production line-up.

Directing "Early Dark" will be Stuart White, who directed Michael Weller's "Loose Ends" at the Hangar Theatre this summer. White is a noted regional theatre director and founder and artistic director of New York's prestigious WPA Theatre.

Set in rural America in the 1950s, "Early Dark" is based on Price's first novel, "A Long and Happy Life," and is the story of Rosacoke Mustian and Wesley Beavers. "Early Dark is a love story," said White, "about human beings with simple needs, dreams and frustrations."

Also in November, Cornell Cinema will present a series of films which explore the festival theme. Each film will be preceded by a short introduction. For a complete listing, check the calendar section of the Chronicle during the month of November.

For information or to place a reservation, call the Theatre Cornell Box Office at 256-5165.

Thurs. through Sat.

Oct. 21-23, 8:15 p.m. *Lincoln Drummond Studio. Theatre Cornell production: "Streamers" by David Rabe. Directed by Richard Shank, featuring Damien Leake as "Carlyle." Contains scenes of violence which some may find offensive. Tickets are available by calling the Theatre Cornell Box Office, 256-5165.

Sunday

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

Thurs. through Sat.

Oct. 28-30 p.m. *Lincoln Drummond Studio. Theatre Cornell production: "Streamers" by David Rabe.

Barton Blotter

In addition to nearly \$3,500 in thefts reported on campus during the period Oct. 11 through 17, the Department of Public Safety reported an unusual number of incidents of criminal mischief on campus.

According to the department's morning reports graffiti was painted on the walls of the Herbert F. Johnson Museum of Art sometime Friday or Saturday. Damage was estimated at \$500.

Also over the week the plate glass window to the entrance to the new underground addition to Uris Library was broken. Cost of repairs had not been determined.

A rock was thrown through a window at University Hall 5 on Saturday. A car parked at McGraw Place was broken into and a radio and cassettes were stolen. Damage and losses were set at \$317.

The hood of a car parked on West Avenue was painted. Estimated damage was \$300. Several windows were broken on campus by thrown objects.

Two students were arrested on charges of involving forged stolen checks and referred to Ithaca City Court.

A member of the Cornell community was referred to the Judicial Administrator on charges of failure to comply and harassment concerning an incident at Traffic Booth 3.

Another person was referred to City Court on charges of assault, criminal mischief, theft of services, resisting arrest and harassment concerning an incident Thursday at Noyes Lodge.

Of the nearly \$3,500 in thefts reported, \$1,500 was the value set on two jackhammers stolen from outside Helen Newman Hall sometime Thursday or Friday.

A couch and coffee tables were reported taken from Upson Hall. Total value was set at \$175. Three bicycles were stolen, worth a total of nearly \$600. Five wallets and purses were stolen containing some \$240 in cash and valuables.

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.

REMINDER—Upcoming fellowship application deadlines:

Nov. 1: **American-Scandinavian Foundation 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. (Applications are available at the Fellowship Office.)

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

Nov. 1: **Sigma Xi Grants-in-Aid of Research** - mail application to: Awards Committee, Committee on Grants-in-Aid of Research, Sigma Xi Headquarters, 345 Whitney Avenue, New Haven, CT 06511. (Applications are available at the Fellowship Office.)

Nov. 1: **Social Science Research Council Fellowships for International Doctoral Research** - mail application to: Social Science Research Council, Fellowships and Grants, 605 Third Avenue, New York, NY 10158.

Nov. 5: **Committee on Scholarly Communication with the People's Republic of China (CSCPRC) Grants** - mail application to: CSCPRC, National Academy of Sciences, 2101 Constitution Avenue, NW, Washington, DC 20418. (Applications are available at the Fellowship Office.)

Nov. 8: **National Science Foundation (NSF)-NATO Postdoctoral Fellowships** - mail application to: NSF, NATO Postdoctoral Fellowship Program, Office of Scientific and Engineering Personnel and Education, Washington, DC 20550. (Applications are available at the Fellowship Office.)

Nov. 12: **Wellesley College-Alice Freeman Palmer Fellowship** - nonWellesley applicants must submit their application to the Fellowship Office, 116 Sage Graduate Center. Cornell may nominate a total of 4 candidates for this award.

Check the Fellowship Notebook at your graduate faculty representative's office or at the Fellowship Office for information on the awards whose deadlines are listed below.

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 of \$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 or 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).

Cornell Responds to 'Cornell 11'

The Ithaca Journal, in its issue of Friday, Oct. 15, carried the following article by reporter Patricia Braus, concerning a press release from the group calling itself "The Cornell 11" and a subsequent statement from the university. The article is reprinted here with permission:

A Cornell University official today called a press release issued Thursday by a group of former faculty members known as the Cornell 11 "misleading" and "inappropriate and factually inaccurate."

The press release from the Cornell 11, a group of women who sued the university in 1980 alleging sex discrimination, announced that the women have rejected a settlement offer from Cornell.

The release detailed the reasons for rejecting the settlement offer, and charged that "the University is refusing to acknowledge that a problem of discrimination has existed and still exists."

Thomas Santoro, associate university

Nobel Winner: A Campaign

Continued from Page 1

how winning the Nobel Prize might affect his life. "It's my hope that winning the prize will enable me to complete the national policy negotiations in which I have been involved and thereby, maybe, have a little more time just to do physics."

"At the present we're trying to make a transition from an era where science basically served the government to an era where science will be serving the economy equally with government and military needs."

"There are many facets to this, more involvement between universities and industry, more money going from industry to universities, more money going from government to universities to help this transition. It's hard to get adequate money to make changes when the government is trying to reduce its expenditures and it's hard to get money from industry when they are very hard pressed to fulfill their own research and development needs. And it's very hard to deal with a subject that is very futuristic."

"In the area of computer simulations, the most important of them will only take place as computers themselves become more powerful. Wrestling with the question of how you allocate funds from areas that

are obviously already starved for funds to new areas which have to be built up is a very difficult national policy issue."

Switching to an era where the needs of the high technology economy will be as important or even more important than military needs involves moving a huge bureaucracy, Wilson lamented.

"It's a many-headed effort. One has to deal with the National Science Foundation and with other agencies of government such as the Department of Energy and the Department of Defense and NASA. One deals with major industries, with the computing industry itself, the oil industry and other consumer industries."

Winning the Nobel Prize won't alter his lifestyle that much, Wilson asserted. He won't buy a new car or even a new bicycle although some of the tax-free \$157,000 may go toward purchasing more computers. One change in style was already in the works: a necessity in his national policy campaign.

"When one deals with industry, one inevitably has to be more entrepreneurial in approach," he said. "You have to go to them in place of answering government requests for proposals. I'm trying to learn that style. I recently went to my tailor to get a special businessman's suit."

counsel, said the Cornell 11 release used inaccurate statistics and "misrepresented the nature of the university's response to their recent settlement offer."

Countering their claims of sex discrimination, Santoro said accurate statistics from Cornell "demonstrate the tremendous success the university has had in increasing the number and percentage of women at Cornell."

The five women who call themselves the Cornell 11 are all former faculty members of Cornell who were denied tenure or reappointment. They claim they represent a class of women who have been discriminated against by Cornell.

Statistics provided by the two parties in the suit differ considerably. The Cornell 11 said Thursday that in 1979-80, women full professors at Cornell earned an average of \$4,570 less than men full professors.

In contrast, Santoro said that university statistics show that "salary levels generally reflect seniority — not sex — and that in five cases out of seven, women, on the average were actually earning more than men."

According to the Cornell 11 press release, the cash settlement offered by the university "fails to address the central issues" which include requests to establish changes in the procedure for faculty appointments and the establishment of a procedure for hearing sex discrimination charges brought by the faculty.

Santoro said Cornell's offer addressed the key issues. "The university responded to the plaintiffs' settlement offer with a

comprehensive letter which analysed all the major elements of plaintiffs' settlement proposal."

Requests for changes in the faculty appointment procedure and for establishment of new hearing procedures "failed entirely to take account of the fact that effective due process procedures now exist for protecting against discrimination in academic employment," Santoro said.

The two parties also disagree on the significance of a ruling in January in which Judge Howard G. Munson of the U.S. District Court for the Northern District of New York denied the Cornell 11 class action status.

In their press release, the Cornell 11 said that in the ruling, Munson "stated that two classes of victims of discrimination appeared to exist at Cornell." Those two classes, the release stated, are women affected by discrimination with respect to compensation and other conditions of employment and women "asserting charges of discrimination in the denials of tenure."

Munson's decision, the Cornell 11 release stated, means "Class status is, therefore, still at issue and will be determined by Judge Munson."

Santoro said: "The Cornell 11, however, neglect to point out that in January 1982, Judge Munson determined that their case could not be maintained as a class action. The issue is still 'at issue' only because plaintiffs have advised the court and university that they intend to ask Judge Munson to reconsider his decision."

Alternatives in Financial Aid Explained to Student Assembly

The Student Assembly meeting Thursday, Oct. 14, featured a special financial aid presentation by Dean James Scannell in addition to the usual assembly business.

Scannell's presentation revealed the latest results of the class of 1986 admissions financial aid distribution. The six original financial aid alternatives that Scannell described during the presentation included: uniform self-help, self-help varied by the ability to borrow, and admit/deny process, aid conscious admission, self-help varied by desirability and the ability to borrow, and finally the plan currently in action—self-help varied by desirability.

The self-help packages consist of work-study jobs and loans, and are balanced with scholarships and grants. Students are awarded packages based on three categories of total attractiveness, slightly varying with each admissions department.

A study of the distribution of financial aid among this year's accepted freshmen indicate "there was no bias in the selection process. For the most part the distribution was comparable," Scannell said. Additionally, Scannell described the quality of the class of '86 student body as

"enhanced," because the financial aid recipients within the two best categories enrolled at a greater rate than non-financial aid students.

Comparing the results of the enrollment of the class of '86 to the class of '85, Scannell said this year's freshman population remained constant in the lower income enrollment, slightly decreased in the middle income enrollment, and increased in the higher income enrollment.

Projecting the goals for the '83-'84 year, Scannell said he will concentrate of the following: 1) the level of indebtedness of graduating students, 2) maintaining or increasing the number of enrolled middle income students, and 3) the decreasing availability of summer jobs for students.

In other business at the meeting:

A proposal for a new Investment Proxy Advisory Committee (PAC) was passed, in regard to the unanimous resolution by the Student Assembly on Sept. 20 to withdraw all support from IPAC. This resolution was issued, according to Student Assembly members, in the hope that the Board of Trustees and the Investment Committee "will reorganize IPAC under the new proposals."

Faculty Asks Board to Reject Changes in Constituency Vote

The full faculty at its meeting Wednesday, Oct. 13, nearly unanimously passed a resolution urging the members of the Board of Trustees "to reject any proposal for restructuring of the board that calls for a reduction in the percentage of the seats to be held by members of the student, faculty and employee bodies of the Ithaca community, or that takes away from those bodies the privilege of election of those members who are to occupy the trustee seats."

The vote was taken among the approx-

imately 130 faculty present, after a lengthy discussion which will be reported in detail in the minutes of the meeting to be published in a later issue of the Chronicle.

The resolution was the same one previously passed by the University's Executive Assembly, and subsequently passed by the Student Assembly and the University Assembly.

It is in reaction to the Trustee Board Study Committee's report on restructuring the board that would reduce its membership from 42 to the current 62.

Summary Agenda for Trustee Meetings Here

Executive Committee Today; Full Board Friday, Saturday

The Executive Committee of the Board of Trustees will meet at 3 p.m. today in the Trustee Meeting Room of the Herbert F. Johnson Museum of Art.

The full board will meet in joint, open session with the Cornell University Council at 9 a.m. Friday, Oct. 22, in Alice Statler Auditorium. The board will reconvene at 2:30 p.m. Friday and at 9:30 a.m. Saturday, Oct. 23, in the Trustee Meeting Room of the Museum.

Both the Executive Committee and the full board will convene in open sessions with executive and closed sessions following the open meetings.

The agenda for the Executive Committee open session will include:

A report of the president.

A report on the establishment of new funds for the statutory colleges.

A report of the Buildings and Properties Committee.

Agenda for the executive and closed sessions of the Executive Committee will include:

A report of the president.

Approval of the minutes of the Executive Committee of Sept. 14, 1982.

A report on the establishment of new funds for the endowed colleges at Ithaca and the Medical College at New York City.

A report on the annual review of the trusteeship of Morgan Guaranty Trust for the university's defined benefit pension plans for endowed employees.

A recommendation to authorize the administration to proceed with renovation of the first and fourth floors of Kips Bay building for the Department of Neurobiology at the Medical College.

A recommendation to authorize the administration to undertake an energy conservation program in 10 dormitory groups.

A report of the Buildings and Properties Committee.

A recommendation on the joint meeting date for the Board of Trustees and Cornell Council in 1987.

The agenda for the joint, open meeting of the board and the Cornell Council at 9 a.m. on Oct. 22 will include the following:

Introduction of new members of the Board.

A report on Cornell Council activities.

A discussion of the resources of the

College of Arts and Sciences.

A report on women and minorities at Cornell.

A report on fund-raising activities of the university.

A progress report on the activities of the Board Study Committee.

A talk by the president on the state of the university.

The agenda for the open session of the Board meeting at 2:30 p.m. Friday at the Johnson Museum will include the following:

A report of the president.

A recommendation to adopt several me-

morial resolutions for deceased trustees and staff.

Discussion of the Board Study Committee report.

Annual reports of several college advisory councils.

A report on enrollment trends.

The annual report of the chief investment officer of the university.

Reports and recommendations for the Executive Committee open meetings of July 13, Sept. 14 and Oct. 21.

A report on the results of the 1981-82 operations of the university.

A report on the university's audited financial statement for 1981-82.

A report from the Committee on Land Grant and Statutory College Affairs.

Agenda for the closed and executive sessions of the Board on Oct. 23 will include:

Approval of minutes of the Board meeting on May 29 and of the Executive Committee meetings on May 29 and July 13.

A report of the president.

A report on the financial outlook for fiscal 1982-83 for the endowed colleges at Ithaca.

Reports and recommendations from the Executive Committee closed sessions of July 13, Sept. 14 and Oct. 21.

A report of the Committee on Academic Affairs.

A report on long-range planning.

A recommendation for the adoption of a charter for a Library Advisory Council.

Personnel matters affecting the endowed colleges at Ithaca and the Medical College.

Reports on the deaths of several faculty members.

Several Open Meetings Scheduled

Several open sessions are scheduled in conjunction with the meetings here today through Saturday, of the Board of Trustees:

—The Buildings and Properties Committee will meet in open session at 9 a.m.

Thursday, Oct. 21, in the conference room, third floor, Day Hall.

—The Executive Committee will meet in open session at 3 p.m. Thursday, Oct. 21, in the trustee meeting room, sixth floor, of the Herbert F. Johnson Museum of Art.

—The Audit Committee will meet in open session at 6 p.m. Thursday, Oct. 21, in the Wilcox Room of Statler Hall.

—The Academic Affairs Committee will meet in open session at 6 p.m. Thursday, Oct. 21, in the Sun Room of Statler Hall.

—The Development Advisory Committee will meet in open session at 7:30 a.m. Friday, Oct. 22, in the North Room of

Statler Hall.

—The Board of Trustees will meet in open session at 9 a.m. Friday, Oct. 22, in Alice Statler Auditorium and at 2:30 p.m. Friday, Oct. 22, in the auditorium of Boyce Thompson Institute.

—The Committee on Land Grant and Statutory College Affairs will meet in open session at 7:30 a.m. Saturday, Oct. 23, in the Sun Room of Statler II.

Because of space limitations in particular meeting rooms, tickets are required for admission to the Thursday afternoon session of the Executive Committee and for the Friday afternoon meeting of the Board of Trustees. A limited number of tickets for the general public will be available after 9 a.m. on the days of the meetings from the Information and Referral Center in the main lobby of Day Hall.

Out-of-Court Settlement Reached in Dowsing Case

The university reached a settlement last week in the case of former gymnastics coach Gretchen Dowsing for alleged sexual discrimination in her pay, after four days of trial in Federal District Court.

Thomas Mead Santoro, associate university counsel, commented on the case in the aftermath of Dowsing's announcement at a press conference last Thursday that there had been a settlement, but that as part of the settlement it was agreed the terms would not be made public.

Dowsing, who joined the Cornell coaching staff in 1974, filed a civil action in Federal District Court for the Northern District of New York in December of 1979 charging the university with violations of the Equal Pay Act and Title VII of the Civil Rights Act. She asked for \$46,696 in back pay for 1976-79 and legal fees.

In commenting on the case, Santoro read a statement prepared by the Office of the University Counsel which concludes:

"The University is pleased with the settlement and will continue its strong support for equal opportunity in women's athletics."

In addition the statement points out: "In 1978 the University upgraded various men's and women's athletic staff salaries as part of a more general program to systematize all athletic appointments and, more specifically, to enrich women's athletic programs. The results of that effort are visible in the fact that the U. S. Department of Education reported to the University in the spring of this year that the athletic program of the University fully complies with Title IX regulations."

"In the process of bringing about these program revisions, athletic staff salaries and team budgets were studied during the period 1976-78. Budgets were upgraded in 1977, salaries in 1978. These decisions were implemented by the University before the filing of the Dowsing lawsuit. Following

these changes, a number of lump-sum payments were made to women coaches when such appointments were shifted to a uniform annual basis. Ms. Dowsing, however, elected to resign in 1979 even though

her salary had been substantially increased in 1978 and 1979. She later brought a lawsuit in Federal District Court."

"The claim was settled during trial. The parties formally agreed in court that the

terms shall not be made public. It can be stated, however, that the case was not settled on the terms demanded by the plaintiff in her complaint."

Minority Enrollment Figures Announced

The enrollment of two minority groups at Cornell has declined from last year to this, while two other minority groups have experienced increases, according to Vice Provost Larry I. Palmer.

The number of American black students declined from 752 in 1981-82 to 721 this year, while the number of American Indian or Alaskan natives went from 44 to 32, Palmer reported.

The number of students of Asian or Pacific Islander ethnic origin increased to 858 from 776 in 1981-82, and the enrollment of students of Hispanic origin increased to 500 from 471 last year, he said.

Cornell's total minority population increased this year to 2,111 from 2,043 a year ago, he said.

"The uncertainty during the past year about the availability of federal financial aid funds took its toll among new students," Palmer said as explanation for the decline in black and Indian students. "We are quite concerned about the losses and are taking action to try to turn it around."

He said there is now more Cornell admissions staff recruiting in minority areas than ever before and, in the process, they are trying to clear up misunderstandings of the financial aid situation.

The decline in black and American Indian enrollment stems almost entirely from a decline in new students from those groups entering Cornell this fall, according to Palmer. The number of new blacks dropped to 156 from 195, while the number of new

American Indians fell to four from 12.

The decline in black freshman stems from a drop in the number of black applicants, he said. Last year there were 1,074 applicants; this year the figure was 872, an 18.8 percent decline.

Cornell was one of four Ivy League institutions that had a significant decline in black applicants this year, Palmer noted. Others were Yale, Harvard and Radcliffe and Pennsylvania.

In analyzing the long-term enrollment trends at Cornell, Palmer observed that 1981-82 saw more black students at the



United Way
of Tompkins County

More than \$230,400 in pledges have been received from the Cornell community, bringing the university portion of the 1982 United Way of Tompkins County Campaign to 82 percent of its goal of \$280,000, and half of the 22 campus divisions are significantly over goal, campaign headquarters reported Wednesday. Among units surpassing their goals are Facilities and Business Operations, 133 percent; Personnel, 123 percent; and Campus Life, 122 percent.

Brief Reports

Parking Lots Expanded To Meet GeoSci Loss

The parking lots at Grumman Hall, Hughes Hall and Anabel Taylor Hall on campus are being expanded and refurbished for a total of 48 additional parking spaces.

The work, expected to continue into late November, will be done one lot at a time and is necessary to provide replacement parking for the 78 spaces lost due to the construction of the new Geological Sciences Building in the parking area behind Hollister Hall. When the building is completed sometime in 1984 about one half of the former parking spaces will be returned to use.

"The expanded parking facilities under construction are within close walking distance and will accommodate those persons who normally park in the U lots adjacent to the Engineering College," according to William E. Wendt, director of Transportation Services.

For further information, call the Office of Transportation Services at 256-4628.

Conference on Sustainable Society Here This Weekend

"Toward a Sustainable and Just Society: Accelerating the Transition," is the topic of a conference here this weekend.

The conference opens with a free public address by Dennis and Donella Meadows, faculty members at Dartmouth College at 8 p.m. tomorrow in Bailey Hall. The Meadows' are principal authors of "Limits to Growth," the 1972 Club of Rome report that stimulated worldwide discussion on the threat of uncontrolled growth to the world system, according to the conference organizers.

In addition to the Friday night lecture, the conference will feature a series of workshops on Saturday on many aspects of the transition to a sustainable society from human settlements and community-based learning to politics on the human scale. The workshops will be led by locally and regionally based people with "experience in alternative institutions for promoting a better future society."

The conference will conclude with an address by Roger Shinn, Reinhold Niebuhr Professor of Social Ethics at Union Theological Seminary, at 11 a.m. Sunday in Sage Chapel Shinn will speak on "Walking Into The Future."

Donella and Dennis Meadows both teach and conduct research at the Resource Policy Center at Dartmouth. Donella Meadows is also a research scientist for the International Institute for Applied Systems Analysis in Laxenburg, Austria. Dennis Meadows serves as a consultant on energy and simulation modeling to many branches of government.

The conference, organized by the Eco-Justice Task Force and the Coalition for Environmental Responsibility at Cornell, is being cosponsored by the Center for Environmental Research, the departments of Education and Natural Resources, the Graduate Activities Funding Commission and Ecology House.

For further information or to register contact Sharon Lynn, Eco-Justice Task Force, Anabel Taylor Hall, 256-6486 or 256-4225.

Literary Critic Stillinger to Talk

Literary critic Jack Stillinger will discuss "The Structures of Romantic Poetry," in a public lecture scheduled for 4:30 p.m. Thursday, Oct. 28, in Hollis E. Cornell Auditorium of Goldwin Smith Hall.

A professor of English at the University of Illinois, Urbana, Stillinger is an author-

ity on the poetry of the Romantic period.

His critical book "The Hoodwinking of Madeline and Other Essays" (1971) was followed by a book "On The Texts of Keats's Poems" (1974) demonstrating the extent to which all the accepted texts were in varying degrees imperfect. His book, "The Poems of John Keats" (1978) is now the standard and authoritative edition of Keats' poems. Stillinger has also published on a range of authors from the 16th century to the 19th century.

His lecture is sponsored by the University Committee on University Lectures and the Department of English.

Mu Sigma Rho Has New Cornell Chapter

A chapter of Mu Sigma Rho, the national statistical honor society, has been established at Cornell with membership open to graduate and undergraduate students.

Mu Sigma Rho has as its purpose the promotion and encouragement of scholarly activity in statistics and the recognition of achievements among staff and students in eligible academic and nonacademic institutions.

For information on minimum qualifications for membership, interested students may contact their advisor or Jeff Morris at 337 Warren Hall, 256-4498 or 4557.

ID Cards Will Become Bus Passes Nov. 29

As of Monday, Nov. 29, all university staff and faculty members may ride campus buses free by presenting their new university identification cards as bus passes, according to C. William Crissey, manager of the campus bus.

The new card, which features the individual's photograph on a gold background, replaces the current white and red bus passes that were issued in September 1979. As of Nov. 29 the old passes will no longer be honored, Crissey said.

Cash fare on the campus buses is 20 cents.

For further information, call the Campus Bus Service at 256-3782 or the Office of Transportation Services at 256-4628.

Soil Judging Teams Sweep Northeast Event

Two student soil judging teams from Cornell have swept the 1982 Northeast Regional Soil Judging Contest held this month at the University of Rhode Island.

These teams, consisting of four students each, captured first and second place. One of the students on the winning team placed first in the individual competition.

As a result of this high standing in the regional event, Cornell will compete in the 1983 National Soil Judging Contest scheduled for April at Ohio State University. A Cornell team took the 1982 national championship.

Members of Cornell's winning team are Edward Blouin of East Northport, New York; Janis Boettinger of Saddle Brook, New Jersey; Amanda Haynes of St. Albans, New York; and Joseph S. Kraft of Sanborn, New York. Blouin won the individual honor with a 1,108.

Members of the second-place team are Ali F. Phillips of Washington, DC; Susan L. Slocum of Binghamton, New York; Elise Pendall of Albuquerque, New Mexico; and Jacalyn Wolf of Port Washington, New York.

Ray Bryant, assistant professor of soil classification and survey in the department of agronomy of the State College of Agricultural and Life Sciences was the coach.

Catherine Law, a teaching assistant, and Kent Snyder, graduate student, served as assistant coaches.

YMCA Pavilion Dedication To Honor Marshal Haggard

The YMCA Pavilion in Robert H. Tremman State Park, designed and constructed by students of the School of Civil and Environmental Engineering in the spring of 1981, will be dedicated in memory of Marshal C. Haggard, the Class of 1991 civil engineer who died in an accident while serving in the Peace Corps in Nepal in the summer of 1981.

The dedication will be held at the pavilion site in Tremman Park at 5:15 p.m. Friday, Oct. 22. Maps showing the pavilion location are available in the CEE School main office in 220 Hollister Hall.

Haggard was president of the Cornell Student Chapter of the American Society of Civil Engineers in 1980-81, and was the driving force behind the design and construction of the pavilion. He was also a leader in many other campus activities, including the Cornell Jazz Ensemble, the Big Brother program and Delta Chi fraternity.

Seminar Will Outline Library Research Use

A general seminar for faculty and graduate students on the use of the library for research will be conducted from 1 p.m. to 2:30 p.m. Friday in Olin Library.

Given by the Olin Reference Department, the seminar will be repeated on four other occasions during the fall term:

Thursday, Oct. 28 from 10:30 a.m. to noon; Tuesday, Nov. 2 from 10:30 to noon; Monday, Nov. 8 from 10:30 to noon, and Wednesday, Nov. 17 from 1 p.m. to 2:30 p.m.

All the seminars will be conducted in Olin Library Room 214. Sign-up for seminars at the Olin Reference Desk or call 256-3319.

Topics to be covered are reference materials, subject search strategies, COMPASS (Computer Assisted Search Service), U.S. Government publications, Olin's Union Card catalogs, and interlibrary services.

The Week in Sports

3 with Green This Weekend

Three games with teams from Dartmouth is the total home sports schedule for Cornell teams this weekend. The men's soccer team and freshman and varsity football squads all have contests with the Big Green, while seven other Big Red teams will have action on the road.

The men's soccer team, which tied Brown 1-1 last week, meets Dartmouth at 7:30 p.m. Friday on Schoellkopf Field. Both teams are currently winless in league play, although the Red does have the tie with Brown to its credit. Cornell took a 2-5-2 overall record into Wednesday's game at Hartwick, while the Big Green is 0-6 and has scored just one goal all season long.

The Big Red varsity and freshman football teams will both be looking for their first wins of the season when they play on the Schoellkopf turf Saturday; the freshmen meet at 10 a.m., followed by the varsity game at 1:30 p.m. The Cornell frosh have an 0-3 record thus far and lost to Princeton last week, 22-0. The team has also fallen to Colgate and Pennsylvania.

The varsity, meanwhile, will be going all out for victory No. 1 against the Green. Like the Big Red, Dartmouth has had its troubles thus far, having lost four of five games. A week ago, the Big Green was in the same boat as Cornell in that it was winless after four contests; however, Dartmouth surprised Harvard, 14-12, for its first win of the year.

In other Cornell sports, the undefeated lightweight football team travels to Rutgers on Saturday. The squad stands at

SAGE CHAPEL

Roger Shinn to Talk At Convocation Sunday

Roger L. Shinn, the Reinhold Niebuhr Professor of Social Ethics at Union Theological Seminary, will speak at the 11 a.m. Sunday, Oct. 24, Sage Chapel Service. His sermon topic will be "Walking Into the Future."

Shinn's address will be the closing of a weekend conference on "Toward a Sustainable and Just Society: Accelerating the Transition," which is being sponsored by the Eco-Justice Task Force, the Coalition for Environmental Responsibility, the Center for Environmental Research, the departments of Education and Natural Resources, the Graduate Activities Funding Commission and Ecology House.

Shinn is also an adjunct professor of religion at Columbia University, and has recently been an adjunct professor of economics at the New York University Graduate School of Business Administration, an adjunct professor of philosophies of Judaism at the Jewish Theological Seminary of America.

He is a past president of the American Theological Society and of the Society of Christian Ethics.

Since 1966, Shinn has been involved in the Working Committee on Church and Society of the World Council of Churches. He has traveled extensively in Asia, Africa and Europe, studying issues of the relations between technology and social ethics. In the United States he chaired the National Council of Churches' Task Force on Human Life and the New Genetics.

He is the author or editor of a dozen books. The most recent book, of which he is editor and a contributing author, is "Faith and Science in an Unjust World," Vol. 1 of the Report of the World Council of Churches' Conference on Faith, Science and the Future (1979). His next book, soon to be published, is "Forced Options: Social Decisions of the 20th and 21st Centuries." Some of his writings have been translated into French, German, Chinese, Japanese, Korean, Arabic and Turkish.

4-0 overall and atop the Eastern Lightweight Football League standings with a 35-0 mark. The Big Red comes off a big 35-0 blanking of previously unbeaten Princeton in which it gained 466 yards of total offense. Twice the Tigers had the ball on the Cornell 1-yard line against the Big Red defense, both times Princeton failed to score. Each of the two goal-line stands resulted in 99-yard scoring drives for the Red.

The Big Red women's volleyball team takes part in perhaps its toughest tournament of the year this weekend, going to Philadelphia to participate in the Pennsylvania Invitational. Cornell had a 2-3 record after finishing second at the Barnard Invitational in New York City last Saturday. On Thursday, the women have a home game with Colgate, scheduled for 6 p.m. in Helen Newman Gym.

The men's and women's cross country teams will be on the road together to compete at the Canisius Invitational on Saturday. The men wrapped up their most successful dual meet campaign since 1979 with an 18-41 victory over Brown a week ago. The women will compete at the Canisius Invitational for the first time ever. They ended their dual meet season 2-2 by losing to both Brown (17-42) and Dartmouth (15-45) last Saturday.

The women's field hockey and soccer teams both take on state rivals on Saturday. The field hockey squad is at Rochester, while the soccer team plays Skidmore.