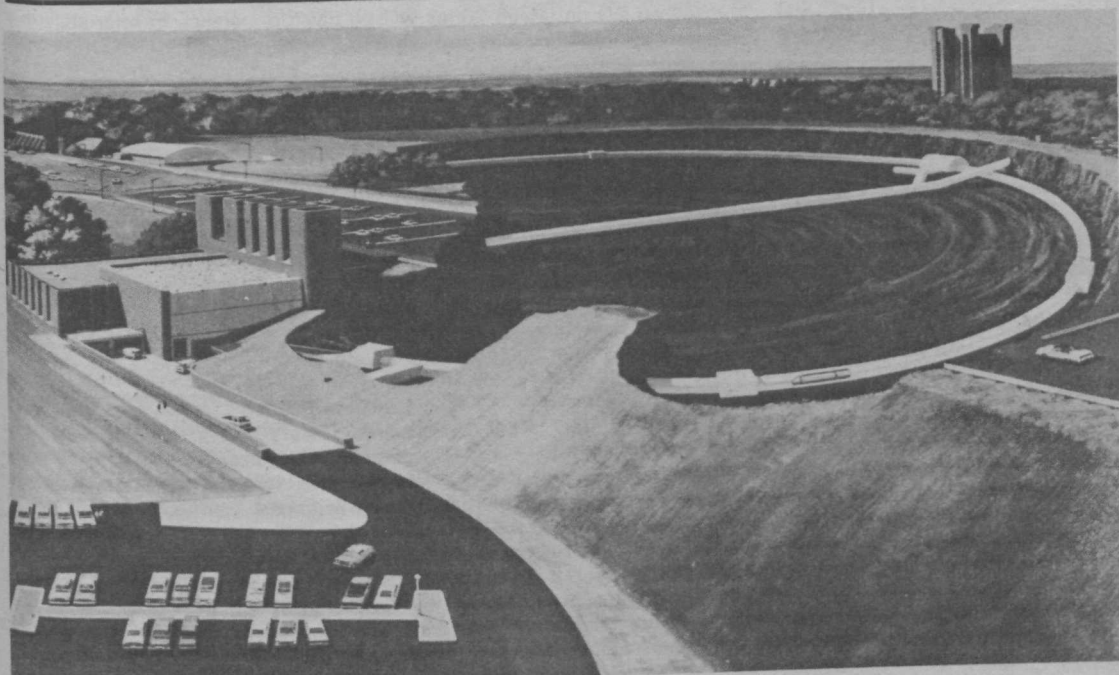




CORNELL CHRONICLE

Vol. 9 No. 9

Thursday, October 13, 1977



An artist's cut-away drawing of the present Wilson Synchrotron shows the half-mile circular tunnel that CESR will share with the synchrotron.

New Synchrotron Ring

CESR to Look for Quarks

A major addition to Cornell University's 12 billion electron volt (GeV) Wilson Synchrotron, which was begun last week, will increase its capability to study elementary particles and to test the controversial theory that quarks are the most fundamental components of matter.

Supported by the National Science Foundation (NSF), the staff of the laboratory is constructing a new instrument which will be known as the Cornell Electron Storage Ring (CESR). Beams of electrons and positrons circulating in opposite directions will be stored for periods of hours in CESR, allowing researchers to study the reactions of the colliding beams. During collision some of the electrons and positrons annihilate, releasing bursts of pure energy that subsequently decay into new elementary particles. Study of these particles is expected to shed light on the validity of the quark idea.

Recent results at other labs in the United States and Europe indicate that the energy range in which CESR is designed to operate will be ideal for gaining a deeper understanding of the basic laws of matter.

All experiments at the Wilson Synchrotron have been shut down, and the entire staff of the laboratory is working to complete CESR by fall 1979. Although CESR will use the same half-mile circular tunnel that houses the synchrotron and will require little new conventional construction, the complexity of its design makes the renovation almost as difficult as building the initial synchrotron, according to Boyce D. McDaniel, director of Cornell's Laboratory of Nuclear Studies, which operates the synchrotron.

The project is expected to cost some \$20.7 million and will be financed from the laboratory's normal operating budget plus new funds from NSF.

In conventional synchrotron experiments, electrons are preaccelerated to very close to the speed of light and injected into the synchrotron's ring of guiding magnets and

accelerators. There they are accelerated to top energy and directed at target particles at rest in the lab. The interaction of the beam and target is then recorded electronically.

In this situation, much like a stone being thrown at a pebble, only a fraction of the beam's energy is available for useful reactions with the target; the major part is carried on forward by the initial projectile.

In colliding beam experiments to be done with CESR, the electron beam from the synchrotron will be directed into a second ring of magnets in the same tunnel and stored there. Subsequently a beam of positrons will be accelerated in the synchrotron and injected into the second ring in opposition to the electrons. Because the colliding particles have the same mass and speed, their entire energy is available for creation of new matter. By using this technique Cornell scientists will

have increased five-fold the reaction energy range available to them.

Because the new matter formed in the collisions flies off with very high speed in all directions, massive and sophisticated equipment completely surrounding the interaction point of the beam is required to identify and measure the new particles. The heart of the 1,000-ton measuring

Continued on Page 2

Political Economy Center Set

A new academic center aimed at broadening the study of the American economy, with particular reference to the role of private enterprise, has been established at Cornell University.

To be known as the Center for American Political Economy, the unit was approved by the University's Board of Trustees at its meeting last weekend. The center was approved by the University's Faculty Council of Representatives (FCR) last month.

The director of the center will be George H. Hildebrand, the Maxwell M. Upson Professor of Economics and Industrial Relations at Cornell. He has been instrumental in laying the groundwork for the center over the past two years. A prototype of the center has been operating within the University's College of Arts and Sciences with gifts from private sources.

These funds are expected to keep the center in operation for about two years, Hildebrand said. Future funding will be

sought from both private and public sources, he added.

The center will function as a University-wide unit drawing its faculty on a part-time basis from the various privately endowed and state-supported schools and colleges at Cornell, such as arts and sciences, law, and industrial and labor relations.

The center will offer undergraduate and graduate courses based on its research projects. Proposed subjects for research are: government regulation of industry, its benefits versus its costs; the preservation

Fall-In Canceled

The Cornell Plantations Fall-In has been canceled for 1977. After being rained out two Sundays in a row, the Plantations staff has decided to wait until next year when, finances and weather permitting, they hope to reinstitute the celebration of autumn.

Wintersession Courses.....	Page 5
Bethe Lecturer	Page 5
Theater, Recital.....	Page 6
Space Energy Station.....	Page 7
Campus Council Meeting	Page 9

Trustees Ask Voter Percentage Law Change

The Cornell University Board of Trustees has authorized the University Administration to request the State Legislature to rescind a statute having to do with the percentage of voter participation in the election of faculty and student trustees.

The board's directive implements action it took in March and calls on the University Administration to formally request the State Legislature to rescind Chapter 747 of the Laws of 1971.

That legislation, enacted in order to insure that faculty and student trustees elected are representative of their respective constituencies, suggested a 40 per cent voter participation as a reasonable guide.

The board took the action at its meeting here last weekend.

Chapter 747, which also requires the board to make a finding to determine if campus-wide elections are conducted fairly and properly, singles out Cornell from among all the colleges and universities of the state, according to William D. Gurowitz, vice president for campus affairs.

"The practice of adding students and faculty members to governing boards of universities has become much more

prevalent since 1971 when the law was enacted without being subject to any comparable legislative mandate," he said.

"The achievement of anything approaching a 40 per cent voter participation, particularly in a campus-wide election of student trustees, in a university with such diverse academic disciplines and decentralized organization is unrealistic," Gurowitz said.

Other members of the University Board of Trustees are not subject to the state mandate. Applying such a mandate to faculty and student trustees, Gurowitz said, has the effect of overemphasizing constituency representation while detracting from the individual trustee's lawful responsibility to the entire University community.

At its meeting this past March, the board had determined to give high priority to early rescission of Chapter 747.

More Trustee Action Stories

Other stories about Trustees' actions last weekend are on pages 3, 4, 9.

Registration to Be Faster

A new, computerized form, intended to simplify and speed course registration for all concerned at Cornell University, will be issued to students on Oct. 24 when registration for spring term courses begins.

"This system makes it possible to register 12,000 students in three hours," according to

Eleanor Rice, University registrar. "The old system took much, much longer."

The new form, along with a new "How to Register" page in the Course and Time Roster booklet, will be distributed to Cornell students when they begin the registration process in their schools and colleges.

Students will be required to use a No. 2 pencil to indicate their schedules on the "optical mark form," a page that is similar in appearance to a Scholastic Aptitude Test (SAT) answer sheet, instead of writing out schedule cards.

After students have filled out the registration forms, the forms will be fed into Cornell's computer. The computer will yield a "course enrollment working list," a new document that will be sent to the various college registrars with a complete list of registrants. From the list, college officials will learn which courses are over-registered.

Decisions and guidelines established by the colleges and departments will be used to determine which students are enrolled. Based on their respective guidelines, the colleges will determine the possible placement of students in over-enrolled courses or sections.

"The previous method required a great deal of manual processing," according to Lynne Personius, the associate registrar who is overseeing the project. "The student's block schedule had to be turned into the college office and a manual sorting operation followed. This way we'll eliminate that manual sorting of cards. People in the colleges can use the time previously spent arranging cards to deal with special situations."

The term "pre-registration" *Continued on Page 2*

Horn: 'A Fair Year'

Investment Values Rise

The market value of Cornell's total investments rose about 4½ per cent during the fiscal year ending last June 30—from \$321.9 million on June 30, 1976 to \$336.2 million on the same date this year.

The Endowment Fund, which is invested for maximum earnings from dividends, and whose principal cannot be spent, increased \$12.1 million in market value. The market value of the Capital Fund, however, declined \$8.6 million.

Reporting to the Board of Trustees, meeting here last weekend, Vice President and Treasurer Robert T. Horn said it was "a fair year" for investment. "Once again our balanced fund (Endowment) out-performed our total-return fund (Capital)," he said.

Investing for total return should result, in theory, in greater income over the long term because of increases in market value. But the stagnant stock market performance of the past several years has caused many to question the policy.

Horn said the decline in market value of the Capital Fund occurred both because of redemptions of units from the fund and because of distribution of principal to support operations. For example, units worth \$2.7 million in

Fund Market Values Summary

	June 30 1975	June 30 1976	June 30 1977
Endowment	\$ 154.8	\$ 173.4	\$ 185.5
Capital	91.1	81.8	73.2
Unrestricted Reserve	—	10.3	5.6
Security Pledge Fund	—	—	4.8
Current Fund (Est.)	17.2	23.2	29.5
Separately Invested	28.8*	30.7*	35.9*
Other	2.3*	2.5	1.7*
TOTAL	\$ 294.2	\$ 321.9	\$ 336.2

* Book Value

unrestricted funds were redeemed to establish a Campus Preservation Fund, which will be used this year to complete the initial phase of the University's "critical maintenance" program.

Withdrawal of capital from the Capital Fund for operations continues on the schedule set in 1974 by the Trustee Ad Hoc Committee on Capital Financing. Horn reported. The committee instructed Cornell's administration gradually to decrease the amount of capital used each year to support operations.

Since 1974, the University has taken about \$700,000 less from the Capital Fund each year. In 1974, about \$5.7 million more than earnings was withdrawn, compared with about \$3.5 million for the past year. "This year we are planning yet another similar reduction in the withdrawal of capital and are

hoping that beyond this year any additional cuts may be more moderate," Horn said. A chart follows showing annual withdrawal of capital in excess of earnings since 1969, the year the Capital Fund was created:

WITHDRAWAL OF CAPITAL - CAPITAL FUND	
Year	Amount (\$Millions)
1969	\$ 1,649,167
1970	2,482,263
1971	3,454,807
1972	4,789,588
1973	5,602,045
1974	5,692,298
1975	4,979,258
1976	4,191,569
1977	3,546,652
TOTAL	\$36,387,647

The stock market picture is unclear, Horn said, with major changes coming in energy and tax policies, "but the nature of those changes is not quite so obvious." Business generally appears good, he said, "but lingering ominously in the wings are the twin threats of an outbreak of increased inflation rates, and a weakening in our international monetary position. It is a time for cash reserves."

Horn characterized the year as "one more in which we were getting our financial house in order. We took the bit in our teeth and charged off \$4.3 million of what had become long-term Current Fund advances against some of our other unrestricted funds. Our financial base is now clean and the Audit Committee will be happy."

Income generated last year by the Current Fund was the highest ever, Horn reported, "not because of higher interest rates but because of much higher balances in hand and working." The estimated market value of the Current Fund was \$23.2 million on June 30, 1976, and \$29.5 million a year later.

Registration To Be Faster

Continued from Page 1

had been eliminated from the vocabularies of Cornell registrars, Rice said, on the recommendation of the Faculty Committee on Academic Records and Instruction (ARI).

"The idea of changing the term to 'registration' from 'pre-registration' is to help students to understand that the October process is not a practice run, but actual course registration," Rice said. "There will still be opportunity for students to make adjustments in their schedules."

As far as adjustments in class sizes are concerned, the colleges will use the same procedures as before, but they will have the information and can make the adjustments much sooner, Rice said.

The decision to switch to the new method was made early in 1977 as a result of studies and recommendations of ARI, the college registrars' offices, the University Registrar's office, and the Office of Computer Services.

Job Opportunities At Cornell University

The following are regular continuing full-time positions unless otherwise specified. For information about these positions, contact the Personnel Department, B-12 Ives Hall. Please do not inquire at individual departments until you have contacted Personnel. An Equal Opportunity Employer.

Individuals on lay-off status will be given preference in referrals.
(*) Indicates new jobs this week
(sh) Indicates shorthand required.

POSITION (DEPARTMENT)

CLERICAL POSITIONS

- * Accountant, Jr., A-18 (Johnson Museum)
- Administrative Aide, A-18 (Division of Unclassified Students)
- * Sr. Admin. Secretary, A-17 (The Graduate School (sh))
- Sr. Admin. Secretary, A-17 (Trust Office)
- * Admin. Clerk, A-16 (Mechanical & Aerospace Engineering)
- * Admin. Secretary, A-15 (Public Safety)
- * Admin. Secretary, A-15 (University Unions)
- Admin. Secretary, A-15 (Applied & Engineering Physics)
- * Principal Clerk, A-14 (The Graduate School (sh))
- Clerk, A-14 (College of Arch./Art/Planning)
- * Dept. Secretary, A-13 (The Graduate School)
- Dept. Secretary, A-13 (Univ. Libraries, Ref./Olin)
- * Dept. Secretary, A-13 (Lab of Nuclear Studies)
- Admin. Secretary, A-15 (Mechanical & Aerospace Engineering)
- * Dept. Secretary, A-13 (Geological Sciences)
- * Dept. Secretary, A-13 (The Graduate School)
- Sr. Typist, A-12 (University Unions - NCU)
- * Library Asst. II, A-12 (Univ. Libraries, Circulation/Olin)
- Secretary, NP-11 (Cooperative Extension (NYC))
- Account Clerk II, NP-9 (Agricultural Engineering)
- Admin. Secretary, NP-8 (Cooperative Extension)
- Admin. Secretary, NP-8 (NYC Program, 4-H Youth Dev. (NYC))
- * Steno II, NP-6 (Education)
- * Steno II, NP-6 (NYSSILR)
- Steno II, NP-6 (Entomology)
- Steno II, NP-6 (Agricultural Economics)
- Steno II, NP-6 (Animal Science)
- Steno II, NP-6 (N.E. Regional Ctr. for Rural Dev.)
- Steno II, NP-6 (Rural Sociology)
- * Steno I, NP-5 (Diagnostic Lab.)
- CRT Operator I, NP-4 (Animal Science)

SERVICE & MAINTENANCE POSITIONS

- Cook II, A-17 (Dining Services)
- * Housekeeping Svpr., A-16 (Residence Life)
- Short Order Cook II, A-15 (Dining Services)
- Stockkeeper II, A-14 (Dining Services)
- Asst. Cook, A-14 (Dining Services)
- * Custodian, A-13 (3) (Buildings & Grounds Care)
- * Custodian, A-13 (Residence Life)
- Drafter I, NP-9 (Natural Resources)
- * Groundswoker, NP-6 (Cornell Plantations)

TECHNICAL POSITIONS

- Synchrotron Operating Tech., A-19 (Lab of Nuclear Studies)
- * Sr. Lab. Tech., A-18 (Chemistry)
- Sr. Lab. Tech., A-18 (Neurobiology & Behavior)
- Research Tech. II, NP-14 (Diagnostic Laboratory)
- * Research Tech. II, NP-10 (Poultry Science)
- * Research Tech. II, NP-10 (Diagnostic Laboratory)
- Research Tech. II, NP-10 (Div. of Nutritional Sciences)
- * Research Aide, NP-9 (Agricultural Economics)
- * Head Poultry Worker, NP-9 (Poultry Science)
- Technical Aide I, NP-9 (Diagnostic Laboratory)
- Program Aide I, NP-5 (5) (Cooperative Extension (E. Harlem))
- Research Support Spec. II, CP04 (2) (Lab. of Nuclear Studies)
- Research Support Spec. II, CP04 (Vet Pathology)
- Research Support Spec. I, CP03 (Chemistry)
- Applications Programmer I, CP03 (Office of Computer Services)
- Research Support Aide, CP02 (Entomology)

ADMINISTRATIVE POSITIONS

- Dir. of Utilities, CP08 (Facilities & Business Operations)
- * Chief, Plant Operations, CP07 (Buildings & Properties - Geneva)
- Manager, Staffing Services, CP06 (Univ. Personnel)
- Counselor-Therapist II, CP06 (Health Services, Mental Health Section)
- * Sr. Computer Staff Spec. CP06 (Computer Science)
- Asst. Dean, SDS III, CP05 (Basic Studies - Engineering)
- * Health Careers Coord., SDS III, CP05 (Health Careers)
- College Registrar, CP04 (NYSSILR (NYC))
- Physiotherapist, CP04 (Univ. Health Services)
- Asst. Dir. - SDS II, CP03 (Univ. Unions - WSH)
- Asst. Dir. - SDS II, CP03 (Univ. Unions - Noyes)
- Financial Aid Counselor, CP02 (Graduate) (Office of Financial Aid)
- Financial Aid Counselor, CP02 (Undergraduate) (Office of Financial Aid)
- Asst. Production Director (University Press)

ACADEMIC POSITIONS (Contact Department Chairperson)

- Tenure Joint Program, Director of Women's Studies & the Dept. of Sociology (Prof. Donald Hayes, 312 Uris Hall)
- Asst. Professor, English Linguistics (Dept. Modern Languages & Linguistics)
- Asst. Professor, German Linguistics & Language (Dept. Modern Languages & Linguistics)
- Asst. Professor, Roman Linguistics (Dept. Modern Languages & Linguistics)
- Asst. Professor, Indo-European Linguistics (Dept. Modern Languages & Linguistics)
- Asst. Professor (School of Chemical Engineering)
- Extension Associate 2 (Div. of Nutritional Sciences)
- Asst. Professor - Int'l Nutrition (Div. of Nutritional Sciences)
- Biochemist (Div. of Nutritional Sciences)
- * Extension Associate, CP06 (Department of Agronomy)
- Research Assoc. IV, CP06 (Department of Agronomy)
- * Asst. Professor (2) (Collective Bargaining, Labor Law & History (NYS-SILR))
- * Asst. Professor (3) (Labor Economics (NYSSILR))
- Extension Assoc. III, CP05 (NYSSILR - Extension)
- Comparative Epidemiology (Veterinary College)
- Epidemiologist - Biostatistician (Veterinary College)
- Food & Industrial Epidemiologist (Veterinary College)
- Environmental Epidemiologist (Veterinary College)
- Animal Health Services (Veterinary College)

For positions in Cooperative Extension, contact the Personnel Recruit-

Continued on Page 4

Rhodes: 'We Must Live Within Income'

Speaking to trustees and members of the Cornell University Council, University President Frank Rhodes said that although past decisions to use a total of \$36 million of capital were not wrong, the University could not continue the practice in the future.

"Let me emphasize that I'm not saying those were wrong decisions. We would be a poorer place in almost every sense of the word had those decisions not been taken. But it also remains a

fact that we cannot continue to drain away our capital resources. We cannot continue to bleed away our endowment for the future. We must now live within our present income.

"That's going to involve hard choices for us — hard choices because it means that new programs will have to come by substitution and not by addition, hard choices because there are many costs increasing in ways we simply cannot control," Rhodes said.



A prototype storage ring magnet for CESR (right) has been installed in the Wilson Synchrotron tunnel. The 12-billion electron volt synchrotron is on the left.

Synchrotron Addition

Continued from Page 1

apparatus to be used with CESR is a 10-foot-diameter superconducting magnet filled with electronic particle-tracking devices and surrounded by iron shielding in which other types of electronic detecting instruments are imbedded. The magnet curves the paths of the particles

emerging from the reactions according to their masses and velocities, thereby providing a clue to the particle's identity. Other clues are obtained by stopping the particles to measure their total energy and by counting the number of particles that emerge from a single reaction.

Thursday, October 13, 1977

Trustee Meeting Summarized

This summary journal, as released for publication, does not include confidential items which came before the meeting, nor does it include information on items about which separate articles appear.

1. The Executive Committee meeting minutes for Sept. 7, 1977, were approved as were the minutes of the full Board of Trustees meeting on May 29, 1977. Executive Committee meeting minutes for the March 17, May 10, May 28 and July 19 meetings were ratified and confirmed.

2. University President Frank Rhodes reported to the Executive Committee on such matters as the Campus Council, budget preparation, inauguration plans, new federal legislation, freedom of speech and medical center affairs. He addressed the joint session of the board and the Cornell University Council on the topic "Cornell: Heritage and Hopes."

3. The board discussed its relations with the State University of New York toward achieving increased liaison between the two universities.

4. The trustees received the final 1976-77 fiscal report as submitted to Haskins & Sells for certification. The audited report of the New York Hospital-Cornell Medical Center Fund was presented by Provost for Medical Affairs Theodore Cooper. Revised budgets for the endowed colleges at Ithaca and the Medical College were approved.

5. The trustees were informed that the Cornell early warning indicators would be submitted to the board quarterly rather than semi-annually.

6. The trustees received a schedule of newly classified capital funds.

7. The negotiation of a contract for replacement of steam condensate piping in E Building at the Medical College was approved along with the necessary funding.

8. The trustees viewed a visual presentation by the Buildings and Properties Committee on critical maintenance.

9. The board took several personnel actions recommended by the president.

10. The trustees approved terms of a letter agreement with the Gannett Newspaper Foundation as to future disposition of Gannett company common stock which the University received as a grant for the improvement of student health facilities.

11. The board set Oct. 22, 23 as the date for the joint Trustee Council meeting in 1982.

12. The trustees heard, in joint meeting with the Cornell University Council, a discussion of the future impact of

admissions and financial aid on the University. Participating were Trustee Charlotte Conable, chairman of the Academic Affairs Committee; Dean of Admissions and Financial Aid Donald G. Dickason; and Gerald E. Rehugler, professor of agricultural engineering and chairman of the Faculty Council of Representatives Committee on Financial Aid.

13. Newly elected members of the board were introduced. They were alumni trustee C.K. Poe Fratt, faculty trustee Carol B. Meeks, student trustees Roland A. Foulkes, Martin D. Robinson, and Keith Said; and employee trustee Ardella Blandford-Wilson. The Secretary of the Board, Neal R. Stamp, reported that New York State Education Commissioner Gordon M. Ambach has notified the University he does not intend to be an active trustee because of potential conflict of interest since he is, by law, president of the University of the State of New York which includes Cornell and all other educational institutions in the state.

14. Trustee Stephen H. Weiss, chairman of the Health Professions Schools Committee, reported, as did Trustee Charlotte Conable, chairman of the Academic Affairs Committee.

15. The full board heard reports and recommendations from the Executive Committee as presented by Committee Chairman Charles T. Stewart.

16. The board approved a revised Joint Agreement between the University and The Society of the New York Hospital.

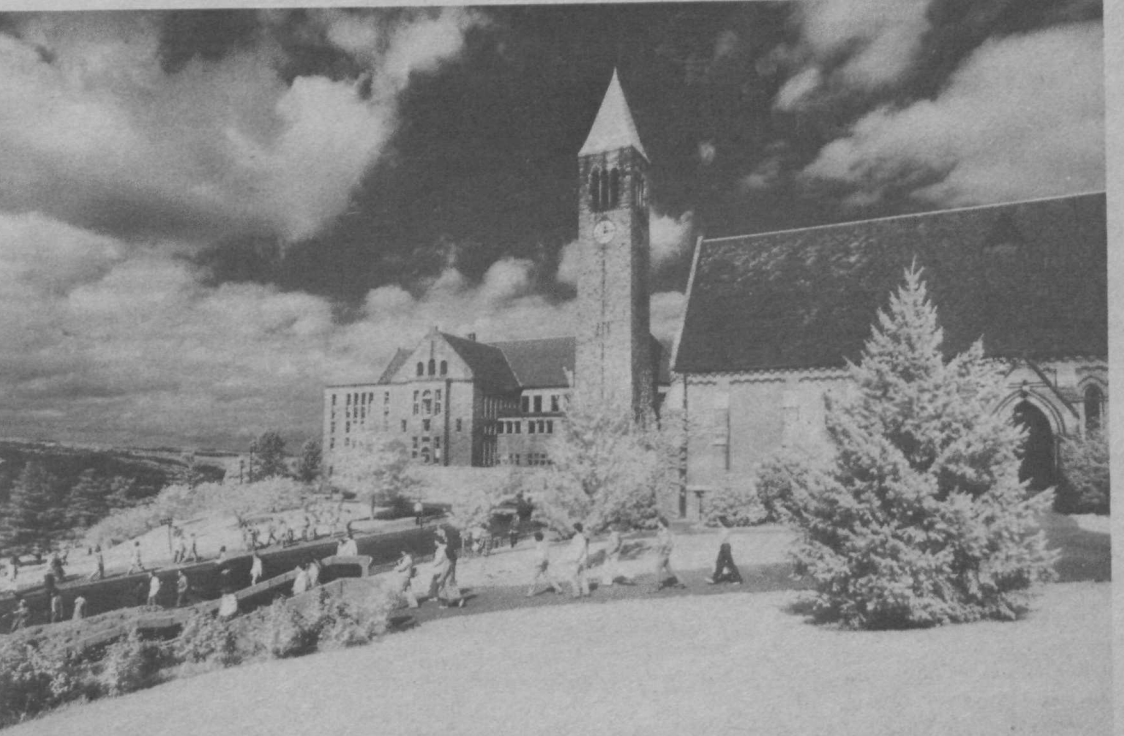
17. Trustees Roland Foulkes and Carol Meeks were named to the Trustee-Community Communications Committee.

ACUSNY Cites Cornell Chancellor

Cornell University Chancellor Dale R. Corson has been cited for outstanding contributions to higher education by the Association of Colleges and University of the State of New York (ACUSNY).

The citation was made at the 71st annual meeting of the association conducted this fall at Union College in Schenectady. Corson was president of the association in 1975-76. He was named chancellor this year after serving eight years as president of Cornell.

The citation reads in part "...you have responded with a quiet steadfast dedication to ever-increasing executive responsibility.



Sage Chapel and Uris Library on a Rare Sunny Day

Russ Hamilton used infrared film (heat and chlorophyll sensitive) to take this view from the top of the Campus Bookstore.

Capital Expenditures

Planning to Be Annual

The University is taking steps toward planning capital expenditures on an annual basis.

A plan for capital needs and resources for 1977-78 was presented to the Board of Trustees at its meeting here last weekend. The presentation is the second step in capital planning, the first having been taken last spring when trustees were given a general analysis of capital resources and needs.

Applicable to the endowed colleges and support services at Ithaca, the 1977-78 plan was developed by Vice President for Financial and Planning Services Samuel A. Lawrence and John

Rudan, planning consultant. It is intended to provide better information about the endowed colleges' facilities and equipment needs and funding possibilities for these needs.

"We hope to achieve several objectives," Lawrence said. "With such a plan trustees and administrators can assess the priorities of competing projects, understand how different projects are related, and monitor the resources available to accomplish them.

"The Development Office can focus its efforts in support of the most urgent needs.

"The Division of Facilities and Business Operations, and related units, will have a firmer basis for planning their activities.

"The Treasurer can better estimate calls on University funds and evaluate proposals for advances from these funds.

"Those putting together the operating budget will eventually have a better means of trading off capital and operating budget requirements," he said.

The 14-page document, with three appendices, titled "Endowed Ithaca Capital Needs and Resources: 1977-78," was released to the press at a news conference following meetings of the board.

Next year the University will prepare a more formal budget for 1978-79 capital expenditures for the endowed colleges, which will be presented to the trustees with the annual operating budgets in May, according to Lawrence.

Plans are underway to prepare

a capital budget for the Medical College in New York City. The University will also explore the manner in which capital budgets for the statutory units are best brought before the University trustees.

The 1977-78 capital spending plan includes a "core program" of projects—those considered of top priority—totaling some \$6.6 million.

These are divided into three categories:

"—maintain existing structures and accomplish those minimum, necessary renovations and alterations to adjust their use to changing program needs;

"—comply with government regulations relating to safety, environmental quality, the handicapped and affirmative action;

"—sustain Cornell's competitive position in a period in which we expect increasing competition for students and for funding of basic and applied research," the document states.

The core program for 1977-78 includes various renovations, planned maintenance projects, the "critical maintenance" program and upgrading facilities.

Of the total \$6.6 million estimated cost, \$4.7 million will be financed from gifts and contracts, about \$1 million from anticipated borrowing or special appropriations, and \$738,000 from the operating budget.

"Overall, funds have been identified for 72 per cent of the costs of projects proposed for 1977-78," the document states. "Remaining funding will need to be obtained from gifts and borrowing."

According to the report, debt financing is proposed only for those projects that can "generate specific cash flows adequate to cover their debt service and for those that permit the University to move ahead with critical maintenance of revenue producing facilities such as housing.

"It is believed that this added debt service expense can be absorbed by the benefiting units without affecting prices. Indeed, in some cases the investment is expected to yield immediate savings that exceed the debt service cost," the report says.

problems of the schools, and advise the board on matters affecting them.

A trustee ad hoc committee on the health professions schools has been studying the interrelationships of the Medical College, the School of Nursing and the Graduate School of Medical Sciences, including affiliations with The New York Hospital and other institutions, since March 1976.

"The size and complexity of the health professions schools make it appropriate for a regular trustee committee to gain an

A new standing committee, the Committee on the Health Sciences, was established by the Cornell Board of Trustees at its meeting here last weekend. The committee's purpose is to study and review the organization, operation and missions of the University's health professions schools in New York City.

The new committee will consult with the deans of the health professions schools on matters concerning the general welfare of the schools, report periodically to the Board of Trustees on the operations and



**CORNELL
CHRONICLE**

Published weekly and distributed free of charge to Cornell University faculty, students, staff and employees by the Office of Public Information. Mail subscriptions, \$13 per year. Make checks payable to Cornell Chronicle Editorial Office, 110 Day Hall, Ithaca, N.Y. 14853. Telephone 256-4206. Editor, Randall E. Shew. Managing Editor, Elizabeth Helmer. Circulation Manager, Barbara Jordan.

Comment

Chronicle Comment is a forum of opinion for the Cornell community. Address comments to Elizabeth Helmer, Managing Editor, Chronicle, 110 Day Hall. Letters submitted for publication in the Chronicle must be typed, double space, with 75 characters to a line, no more than 600 words in length. The Chronicle intends to adhere to this limit because of space and financial restrictions. The deadline is Monday noon at 110 Day Hall. Letters addressed to someone other than the editor, personal attacks against individuals or unsigned letters will not be printed.

Plea Made for Soviet Dissidents

Editor:
On Oct. 3-5, the Laboratory of Plasma Studies at Cornell sponsored a symposium in the Statler Auditorium at which a delegation of Soviet scientists presented papers. While these scientists were engaging in fruitful scientific exchange, many scientists in the Soviet Union are being denied this opportunity. Jewish scientists who apply for permission to emigrate to Israel are dismissed from their positions and professionally isolated. Many are harassed and even jailed. Veniamin Levich, a leading physical chemist, was recently refused permission yet another time. He has not been allowed to work in his field since he first applied five years ago. He is currently being publicly denounced. Arkady Tsinober, a physicist, is still being denied his doctorate, despite the fact that his thesis was approved two years ago. Grigory Goldshtein, another physicist, lost his job when he first applied for a visa six years ago. He was just warned that he will be prosecuted for "parasitism." Anatoly Shcharansky, a brilliant young mathematician, has been held incommunicado in prison for over six months. He is being used as an example to scare off dissent and emigration. The authorities have threatened to try him for "treason," the possible sentence: death.
In a letter to the president of the Academy of Sciences of the USSR, entitled "The Rights of

Scientists," Andrei Sakharov, Yuri Orlov, Levich, Mark Azbel and other dissidents and refuseniks wrote that "it is impossible to separate science from the people who create science." With this in mind, I issue a challenge to President Rhodes and the Cornell faculty: stand up for your colleagues in the Soviet Union. When you greet the numerous Soviet delegations that visit Cornell during the year, make a point of expressing to them your concern

about the repressions of Soviet scientists. Invite dissidents and refuseniks as visiting scholars, as Thomas Eisner has already done for the dissident Kovalev. Insist that these scientists be part of the delegations to Cornell.
And for God's sake, help save Anatoly Shcharansky.
Robert J. Geffen, Ag '79
Robert R. Lipman, Engineering '79
Coordinators
Cornell Student Struggle
for Soviet Jewry

'Cameras Deter Free Speech'

Editor:
The eloquent statement by President Rhodes in favor of freedom of speech at a university on one day, and the appearance of Cornell security officers with guns and cameras at a public lecture the next day seem inconsistent.
The administration are now arguing that the photographing of those attending a public meeting will protect free speech because it will prevent disruption. But this is the familiar logic used by governments of oppressive regimes both of the right and of the left. It smacks of Germany under Hitler and Russia under Stalin.
Police photographs are likely to deter individuals both from at-

tending, and from openly speaking out, at such meetings. Therefore they are an infringement of the very freedom that Rhodes called for in his statement, and which we believe all universities should cherish.
The university commodity should demand assurance firstly that all the videotapes and photographs taken at the Friedman Lecture have been erased or destroyed, and secondly that such "police state" activities will be forbidden in the future. As President Rhodes stated, "The advancement of learning and the improvement of our social structures depend on free expression."
Michael C. Latham
Professor of International Nutrition

'Radome Is Valuable Device'

Editor:
In response to Professor Jeffrey Frey's letter critical of the placement of the "radome" atop Bradfield Hall, we wish to voice some objections.
For one thing, its relatively small size serves to deface the building about as much as "Old

Rusty" defaces the Cornell Campus — in other words, not at all. The radome is far less distasteful and much more useful than the senseless graffiti scrawled on several campus buildings (Sibley Dome, for instance). Also, the Cornell Division of Atmospheric Sciences has as one of its goals dissemination of weather information and appropriate notice before the approach of severe weather. The dome will enable us to carry out this mission with a greater degree of accuracy; we will be able to pinpoint precisely the arrival of severe conditions.
Last winter, the department and Dr. Douglas Paine in par-

ticular, answered hundreds of questions from local radio stations, newspapers and concerned callers from around Ithaca. The demand for weather information, especially during severe situations, are now as great as they ever were. Thus, Bradfield's newest addition should not be looked upon as a wasteful burden, but rather as a valuable device which will help us do a better job. The Cornell and Ithaca communities have all to gain and little to lose by supporting the use of the radar dome.
Jim Firestone Ag '80
Robert Eisenson Ag '80
Atmospheric Sciences

Farmer Applauds Radome's Presence

Editor:
Professor Frey objects to the radome recently placed on the roof of Bradfield Hall, and suggests "we root out the farmers . . . (who) permit the defacing of natural and man made features that distinguish our campus."
The writer is one farmer who over the last 40 years has had no influence whatsoever on the silver suspension bridge or Bradfield Hall, or for that matter any major decision by Cornell related to its physical plant. However, I have classified Bradfield Hall as

the largest single example of visual pollution in Tompkins County. Anything which detracts from seeing the building itself, such as a shiny decoration on its roof is to be applauded and cherished. The fact the decoration is also utilitarian is a bonus.
Cornell is a great place, may it always attract persons of divergent views who don't take themselves too seriously.
Robert D. Sweet
Professor and
Chairman
Dept. of Vegetable Crops

'Farmers Should Be Appreciated'

Editor:
We were interested by Jeffrey Frey's letter in the October 6
Heights Phone Changes Needed
A number of residents of Cayuga Heights have had their telephone numbers changed recently.
Any staff member who has had his or her home telephone number changed and has not yet reported that change for the staff directory should call, today or Friday, at 6-4619 or 6-4945.

Chronicle. Although he has a right to his opinion on whether the radome is attractive or not, his slur on the American farmer is totally unjustified. It is statements like his that perpetuate the belief that farmers are dumb. In this day and age farming is a highly complex and technical occupation. It is time people like Jeffrey Frey began to realize how difficult farming can be and to appreciate the fact that there are people willing to farm so that we all can eat.
Jill S. Knapp
Wayne R. Knapp
Agronomy Dept.

Gifts to Cornell Reported

The University has received a total of more than \$71 million in gifts and commitments during the first two years of the Cornell Campaign.
Jansen Noyes Jr., chairman of the campaign, reported to the Board of Trustees and Cornell University Council members last weekend that through Sept. 30 more than \$71.6 million had been given or committed to the University.
Noyes pointed out that another \$60 million is outstanding in proposals and other gift prospects and expressed optimism that Cornell would achieve its five-year goal of \$230 million.
Noyes mentioned a number of personal gifts received in the 1976-77 year of the campaign, citing them as some of "the many and diverse ways that alumni are finding to commit to the University what they really feel in their hearts they should be committing."
Among the gifts he mentioned were \$5,000 worth of cassette duplicating equipment for the libraries, \$300,000 in securities for endowment and scholarships, a \$1.2 million unitrust for a professorship in the College of Arts and Sciences, 25 acres of a farm that will be sold for more than \$100,000, and a \$10,000 insurance policy.
Noyes described the organization of the campaign,

which he said the leadership had concentrated on building during the first two years, and introduced six chairmen of various committees.
The national campaign committee for alumni support "is the only completely new committee that grew out of the campaign," Noyes said, "and will be touching all our lives over the next three years."
The committee will seek to make all alumni fully aware of the campaign and gain a broad range of support.
The campaign's \$230 million five-year goal is made up of several sub-goals. To support the

University's current operations \$65 million is sought. Increasing endowment funds, to insure the long-range financial stability of Cornell, has a goal of \$100 million. To build new facilities and renovate the existing plant, the goal is to raise \$50 million. And \$15 million will go for special programs to enrich the quality of life at Cornell.
Of the total, \$30 million is to come from the Cornell Fund, \$40 million from foundations, \$20 million from corporations and the rest from large individual gifts through capital gifts, bequests, trusts and life income gifts.

Trustees Approve Phillips Addition

Cornell's Board of Trustees has authorized the University administration to proceed with preliminary planning for an addition to Phillips Hall on the College of Engineering campus, which will accommodate the National Research and Resource Facility for Sub-micron Structures.
The study will be financed from the first increment of a five-year, \$5-million grant from the National Science Foundation, with which the University will establish the facility.

The building of the addition to Phillips Hall is the second phase of a two-part construction program. Phase I was approved by the trustee executive committee at its July meeting, and the budget for Phase I was increased at the September meeting of the board.
Phase II plans call for building a fourth floor addition to the south wing of Phillips Hall and renovating two existing rooms on the fourth floor. Completion of Phase II construction is tentatively planned for fall 1979.

Job Opportunities

Continued from Page 2

ment Section, Cooperative Extension, 212 Roberts Hall.
Extension Associate (2) (Sea Grant/4-H Youth Develop.) (NYC. Cooperative Extension)
* Cooperative Extension Agent (Community Resource Development) (New City, N.Y., Cooperative Extension)
PART-TIME & TEMPORARY POSITIONS
Temp. Service Clerical (Admissions Office (temp. f/t))
Temp. Service Clerical (2) (Diagnostic Lab (temp. p/t))
Steno II, NP-6 (NYSSILR (temp. p/t))
Steno II, NP-6 (NYSSILR (temp. f/t))
* Keypunch Operator, NP-6 (State Finance & Business (perm. p/t))
Program Aide I, NP-5 (Coop. Extension (temp. f/t) (NYC))
* Records Clerk I, NP-4 (Vet Microbiology (perm. p/t))
* Admin. Secretary, A-15 (College of Arch./Art/Plan. (perm. p/t))
* Library Searcher I, A-13 (Univ. Libraries, Acq./Olin (perm. p/t))
Searcher I, A-13 (Univ. Libraries, Acq./Olin (perm. p/t))
* Sr. Clerk, A-12 (Campus Bus (perm. p/t))
Steno, A-11 (Botany, Genetics & Dev. (temp. p/t))
* Sr. Clerk, A-12 (Univ. Press (perm. p/t))
Typist, A-10 (Athletics & P.E. (temp. p/t))
Tech. Aide II, NP-11 (ETV Center, Media Services)
Lab. Tech. I, NP-11 (Avian & Aquatic Animal Medicine (temp. f/t))
Res. Tech. II, NP-10 (Biochemistry, Molecular & Cell Biology (temp. f/t))
Lab. Asst. I, NP-3 (Seed & Veg. Sciences (temp. f/t) Geneva)
Res. Spec. I, A-19 (Civil & Env. Engineering (temp. f/t))
* Electronic Tech., Jr., A-15 (Materials Science Center (perm. p/t))
Temp. Service Labor (Neurobiology & Behavior (perm. p/t))
Regional Director, CP04 (Univ. Development (temp. p/t) - Cleveland)
Managing Editor, CP04 (NYSSILR (tmep. f/t) Albany)
Program Asst. Family Housing, CPO2, SDS i or Grad Asst. (Office Dean of Students - Residence Life (perm. p/t))
Research Assistant (B&PA (Psych. Coord. Com.))

Thursday, October 13, 1977

Wintersession Has Three Programs

Plans are underway to offer "wintersession" courses in Arizona, Costa Rica and the Soviet Union during Cornell's January intersession, according to Martin W. Sampson Jr., dean of the Division of Summer Session and Extramural Courses.

The course in Arizona will focus on field research methods used in the study of animal ecology and behavior. The sites of study will be the Chiricahua Mountains and the Cave Creek Canyon located in the southeastern portion of the state. The area offers dramatic variations in terrain and climate and supports a wide array of flora and fauna.

Day hikes through grasslands and semidesert shrub areas, evening drives in search of nocturnal mammals, birds and reptiles and foraging trips in a variety of habitats are among the activities planned to acquaint participants with field research skills. The instructor is Kim Innes, graduate student in behavioral psychology at Cornell.

The course in Costa Rica will be on the field identification and laboratory analysis of tropical flowering plants. The course will be led by Harold E. Moore, Cornell professor of botany, and will be conducted at two field stations of the Organization for Tropical Studies at La Selva and at Las Cruces. The final day will be spent in coastal Panama. An introductory course in the taxonomy of vascular plants is a prerequisite.

Alice Stone Nakhimovsky, a Cornell Ph.D. and member of the faculty at Colgate University, will lead the course in Russian culture to Moscow and Leningrad for the third consecutive year. Among the scheduled field trips are visits to the Kremlin, the Tretyakov Galleries, the Hermitage-Winter Palace Museum, the circus, a tour of an English-speaking school and an evening at the ballet. Lecture topics will include 18th-century Russian society, icons, and an introduction to Soviet society.

Marine Lab Plans Lobster Dinner

Isles of Shoals lobster with drawn butter, homemade bread, tossed green salad, sherbet and all the beer or milk you can drink are on the menu for 5:45 p.m. Thursday, Oct. 20, in the Dairy Bar Cafeteria of Stocking Hall.

Lobsters for the feast, which is sponsored by the Shoals Marine Laboratory, are being purchased direct from Isles of Shoals fishermen and trucked to Ithaca. According to John M. Kingsbury, director of the Shoals Marine Laboratory, the lobsters are "the best in the world."

Kingsbury will speak on lobstering in Maine following the

Wintersession courses are open to all interested persons. Each course offers three credits or may be taken on a non-credit basis. The trips will be two to three weeks in length, with the Russia and Costa Rica groups departing from New York City in early January and Dec. 28 respectively. Costs will include round-trip air fare, all meals and accommodations, field trips, tuition and fees. The Soviet Union excursion is \$975; the Costa Rica trip is \$1,250.

The cost of the Arizona course is \$315, but participants are expected to supply their own transportation to San Simon, Arizona.

Interested persons should go to or telephone the Office of Summer Session and Extramural Courses, 105 Day Hall (256-4987) for further information. Early application is advised for all courses.

Human Rights Is Conference Topic

A conference on "Human Rights and the USA" will be held Oct. 14-16 in Anabel Taylor Hall at Cornell University. The purpose is to discuss violations of human rights at home and abroad and ways to organize opposition to oppressive policies.

The conference is open to the public and sponsored by the Campus Ministry and student organizations concerned with international relations.

A panel discussion will be held at 8 p.m. Friday in the Anabel Taylor Auditorium on "Institutionalization of Repression in Developing Nations." Participants will be: Benedict Anderson, professor of government and Asian studies at Cornell; James Petras, professor of Latin American studies at State University of New York (SUNY) of Binghamton; Thabo Rapoto, student leader from Soweto, South Africa, and Cynthia Grey, Grand Jury

Robert Rathbun Wilson, director of the Fermi National Accelerator Laboratory (Fermilab) in Batavia, Ill., and the man for whom Cornell University's 12 billion electron volt (GeV) Synchrotron Laboratory is named, will deliver the 1977 Bethe Lecture Series at Cornell during the last two weeks in October.

The Bethe Lecture Series was established as an annual event last year by Cornell's College of Arts and Sciences in recognition of Hans Bethe, Nobel laureate and the John Wendell Anderson Professor of Physics Emeritus at Cornell. The purpose of the series is "to bring to Cornell distinguished persons working in the frontier of physics and related fields so that they may enrich and stimulate the intellectual atmosphere of the University in the manner that Hans Bethe has throughout his

Campaign.

Workshops focusing on Asia, Africa and Latin America will be held Saturday morning, led largely by people from South Korea, South Africa and Chile. Various films including, "There is No Crisis" on the South African situation and "Chile and South Africa" will be shown.

On Saturday at 2 p.m. a larger workshop will deal with "American Consciousness and Political Repression in the U.S." with Cynthia Grey speaking about Puerto Rican prisoners and grand jury abuse. Rev. Leon White from North Carolina will discuss the Wilmington 10, whose defense campaign he has coordinated since the beginning of the case.

On Sunday at 11:15 a.m. the Protestant Community at Cornell will hold a Human Rights Liturgy in the Anabel Taylor Hall Chapel, attempting to tie together the themes of the weekend. A coffee hour and panel discussion on the "Role of the Church in the Human Rights Struggle" will follow at 12:30 p.m.

Sage Convocation: Rabbi Is Speaker

Rabbi Eugene B. Borowitz, professor of education and Jewish religious thought at Hebrew Union College-Jewish Institute of Religion, New York City, will speak at the Sage Chapel convocation at 11 a.m. Sunday, Oct. 16. His topic will be "When Religions Disagree."

As author, editor and critic, Borowitz is considered one of the leading American Jewish thinkers. He has been continuously active in the field of adult education and is editor of the B'nai B'rith adult education series "The Jewish Sources Speak."

He is also founder and editor of "Sh'ma, A Journal of Jewish Responsibility," which presents an interaction between Judaism and social ethical concerns. His book "The Mask Jews Wear" (1974) received the National Jewish Book Award in the field of Jewish thought. He has two current books: "Reform Judaism Today," about to be released,



Robert R. Wilson

career."

Wilson will deliver four lectures during his visit to Cornell, one directed toward members of the scientific community and the others of more general interest.

The technical talk, entitled "The Tevatron, a 1,000 GeV Colliding Beam Accelerator," will be presented at 4:30 p.m. Monday, Oct. 17, in Bethe Auditorium (700 Clark Hall).

"A Physicist Blunders into Architecture," a discussion of his attempts to mesh form and function when designing Fermilab, will be presented at 8 p.m. Tuesday, Oct. 25, in 115 Franklin Hall. The seminar is sponsored jointly by the College of Architecture, Art and Planning

and the College of Arts and Sciences.

"The Humanness of Physics," a discussion of some of the aesthetic and philosophical questions that motivate inquiry into the laws of physics, will be held at 4:30 p.m. Thursday, Oct. 27, in Baker 200.

"A World Laboratory of Nuclear Studies," examining some of the economic and political considerations involved in creating such a laboratory, will be presented at 4:30 p.m. Friday, Oct. 28, in 311 Newman Laboratory. Wilson was instrumental in establishing an international group of scientists to consider the feasibility of such a laboratory.

Wilson served as professor of physics and director of the Laboratory of Nuclear Studies at Cornell from 1947 to 1967. Under his leadership Cornell built and operated a series of electron synchrotrons using designs considered both daring and imaginative by the physics community. The synchrotrons enabled Cornell to become a leader in research on elementary particles.

When the U.S. government established Fermilab in 1967, Wilson was named its director, with responsibility for building the world's highest energy accelerator, a 500 GeV proton synchrotron.

Anthropologist To Talk on China

G. William Skinner, a former Cornell University faculty member and now professor of anthropology at Stanford University, will deliver two free, public lectures at Cornell on Oct. 17 and 18.

Skinner will speak on "China Today: A Report on a Recent Delegation Visit" at 4:30 p.m. Monday, Oct. 17 in G08 Uris Hall. His talk is a China-Japan Program colloquium.

The following day, Tuesday, Skinner will speak to an anthropology colloquium at 4:30

p.m. in 165 McGraw Hall. His topic will be "Regional Systems: A New Approach to Some Traditional Anthropological Problems."

Skinner, who taught at Cornell from 1960 to 1965, is a visiting professor at the University of Pennsylvania this semester.

Noted for his originaive work on Chinese society and the overseas Chinese, Skinner has also produced a massive bibliography of social science research on China that many experts feel will remain the standard work for decades. It includes materials in English, Chinese and Japanese.

'Jewish View of Sex Ethics'

Rabbi Eugene B. Borowitz, professor of education and Jewish religious thought at Hebrew Union College-Jewish Institute of Religion, will be the guest speaker at a Shabbat Dinner sponsored by the B'nai B'rith Hillel Foundation at 7:15 p.m. Friday, Oct. 14, in the One World Room of Anabel Taylor Hall.

His topic will be "A Jewish View of Sex Ethics." Reservations for the dinner should be made in advance at the Hillel Office, G-34 Anabel Taylor.

On Saturday Oct. 15, Borowitz will speak on "Roth, Malamud, Bellow, Wiesel: Four Views of Being Jewish" at 4:30 p.m. in the Founders Room of Anabel Taylor.

As author, editor and critic, Borowitz is considered one of the leading American Jewish thinkers.



and "Contemporary Christologies: A Jewish Response" for release later this year.

Borowitz has served as visiting professor of religion at Princeton University, Temple University and Teachers College, Columbia University. Prior to his academic positions, he served congregations in St. Louis, Mo. and Sands Point, N.Y. and was national Director of Education for Reform Judaism.

Freud Is Talk Subject

Paul Roazen, a Canadian professor who has written extensively on Sigmund Freud, will deliver a lecture on "Freud and His Followers" at 4:15 p.m. Thursday in Kaufmann Auditorium of Goldwin Smith Hall.

Roazen's lecture, which is free and open to the public, is sponsored by the Society for the Humanities at Cornell.

Roazen is professor of social and political science at York University in Toronto. Among his writings on Freudian and post-Freudian thought are three books: "Freud: Political and Social Thought" (1968), "Brother Animal: The Story of Freud and Tausk" (1969) and "Erik H. Erikson: The Power and Limits of a Vision" (1976).

CRIME ALERT

NO. 15

OPERATION I.D.

PROPERTY VALUED AT THOUSANDS OF DOLLARS IS RECOVERED BY POLICE AGENCIES EACH YEAR. UNFORTUNATELY IT CANNOT BE TRACED OR RETURNED TO ITS RIGHTFUL OWNERS BECAUSE OF THEIR INABILITY TO MAKE POSITIVE IDENTIFICATION.

YOU SHOULD MARK YOUR PROPERTY USING AN ELECTRIC ENGRAVER, AND KEEPING A VALUABLE PROPERTY RECORD.

NEVER GIVE A THIEF AN EVEN BREAK, BE ABLE TO IDENTIFY YOUR PROPERTY.

MAKE YOUR MARK FOR CRIME PREVENTION NOW

THE CORNELL DEPT. OF PUBLIC SAFETY WOULD LIKE YOU TO KNOW ABOUT

CRIME PREVENTION

PROPERTY RECORD
T.V. 75M1274
CAL. C279958
CAMERA N376912
BIKE FU 77842

Women in Communications Conference

Professionals Lead Workshops

The Cornell Chapter of Women in Communications, Inc. will sponsor a day-long workshop on Friday, Oct. 21, entitled "Perspectives in Communication: The Communication Specialist." The workshop will be held on the 7th floor of the Clark Hall of Science on the Cornell campus, and is open to both men and women.

Eighteen visiting professionals will offer career workshops in their fields of expertise — among them, Marjorie T. Rafael, marketing manager for Time Magazine; Kay Wight, administrative director of CBS News; Lilly Vincent, consumer information specialist for the U.S. Department of Agriculture; Joyce Yaeger, media relations associate for Planned Parenthood; Mary Elizabeth Nocera, director of instructional services for WCNY-TV/FM and Carmen Pugliese of Time-Life films.

Innovative and traditional areas of communication will be represented including print and broadcast journalism, marketing, advertising and public relations, education, industry, management, federal and state government, film and video.

Cost for the workshop is \$2.50 (\$1.50 for members) and \$3 at the door. An optional box lunch is available for an additional \$2 but must be ordered at the time of preregistration. Interested persons should preregister by Oct. 14 at Willard Straight Hall, North Campus Union, Noyes Center and the various campus career centers. Preregistration forms and further

information may also be obtained by calling Beverly Holmes at 273-5658.

The event is the first to be offered by Cornell Women in Communications, a newly formed, joint student and professional organization aimed at bringing

together individuals interested in all fields of communication and encouraging high standards of professional excellence and individual achievement. Membership and participation in all activities are open to both men and women.

Education of Women In Professions, Topic

Mary Diederich Ott, research associate in the College of Engineering at Cornell University, will discuss "The Education of Women in the Professions" at 8 p.m. Tuesday Oct. 18, in 135 Emerson Hall on the Cornell campus.

Ott will examine the changing patterns of enrollments and degrees awarded in the fields of

engineering, medicine, chemistry, veterinary medicine and law and will discuss traits characteristic of female engineering students.

The lecture, which is free and open to the public, is sponsored by Graduate Women in Science, an organization dedicated to encouraging the activities of women in science.

Drummond Studio Announces Play

"The Mysterious Murder of Maria Marten," an original play based on a widely publicized true life crime story, will be presented in Cornell University's Drummond Studio Oct. 20-23 and 27-29 at 8:15 p.m. each day.

The play is written and directed by Peter Winn, a Ph.D. candidate in theatre arts, and is based on an occurrence which took place in 1827 in Polstead, Suffolk, near Winn's home town. The story concerns the murder of Maria, a young woman of 26, by her lover, William Corder, a local tenant farmer. The murder occurred under especially mysterious circumstances and when Corder was finally found guilty and hanged, the case had become a "cause celebre" throughout England and Europe.

The tale of Maria's demise was quickly picked up and

dramatized with fantastic flourishes. The melodrama that resulted is still performed in British repertory theatres, as well as in Australia, Japan and Latin America.

Winn has gone back to actual trial records as well as the melodrama to construct his play. His adaptation of the story incorporated scenes from the melodrama, verbatim extracts from the trial and reconstructions of the "real" events, suggesting that an objective view of the events can never wholly shake itself free from the theatrical shackles imposed upon it.

Set and lighting design are by Joshua Dachs, with costumes designed by Robert Musco.

Tickets are available at the Willard Straight Theatre Box Office (lower floor), open 3 to 6 p.m., Monday through Friday. Call 256-5165 for reservations.

Economist Boulding To Give Lectures

Economist Kenneth E. Boulding will give public lectures at Cornell University Oct. 17 and 19 in his capacity as an Andrew D. White Professor-at-Large at Cornell.

Boulding will discuss "The Role of Energy in Economic Development," at 4 p.m. Monday, Oct. 17, in Uris Auditorium and will address the topic, "Doom or Boom: The Limits of Human Development," at 8 p.m. Wednesday, Oct. 19 in Ives 120.

During his two-week stay on campus (Oct. 16 through 30) Boulding will meet in seminars and informally with students and faculty. He will have office hours at the Department of Natural Resources in Fernow Hall.

The British-born economist has written more than 20 books. One of them, "Beyond Economics," was nominated for the National Book Award in 1970. Other books include "Economic Imperialism," "Redistribution to the Rich and the Poor" and his most recent work, "The Economy of Love and Fear."

He also has written numerous reviews and articles which have been published in such diverse magazines as American Behavioral Scientist, American Economic Review, New Republic and Saturday Review.

He is a fellow of the American Academy of Arts and Sciences and the American Philosophical Society.

Japanese to Confer At Cornell University

"University Administration" sounds like an easy topic for Cornell University administrators to discuss next week (Oct. 17-22). However, their audience will be some 40 Japanese.

Cornell's Center for International Studies (CIS) has arranged a week-long seminar involving presentations by senior Cornell administrators for a delegation of Japanese officials representing the Union of Private Japanese Universities.

The group represents the smaller, post-World War II schools in Japan which are now educating some 80 per cent of the country's college students. The universities of Tokyo and Kyoto are the only state-supported schools in Japan.

This will be the fourth visit the group has made to the United States, but the first to Cornell.

The first of some 20 seminar sessions is scheduled for 9 a.m., Monday, Oct. 17, in the conference center of the Herbert F. Johnson Museum of Art. Cornell President Frank Rhodes will welcome the guests, as will Milton J. Esman, director of CIS, and Thomas W. Leavitt, museum director.

Eiichi Hosaka, president of Aoyama Gakuin University and leader of the Japanese delegation, will respond to the opening remarks.

"Cornell in the Context of American Higher Education" will be the subject of the first working session which will be led by Provost David C. Knapp.

All Cornell vice presidents, as well as the deans of four schools and colleges, the dean of the faculty, the director of University libraries, the director of athletics and other administrators will address the visitors during the week.

A tour of Cornell facilities is scheduled for Monday afternoon. That evening, as well as Friday evening, there will be social gatherings at the Holiday Inn. Some 25 Japanese members of the Cornell faculty have been invited to the two affairs.

Plant Pathologist Receives Award

Georgé S. Abawi, assistant professor of plant pathology at Cornell's State Agricultural Experiment Station, Geneva, has received the 1977 CIBA-Geigy Award for excellence in plant pathology research in the United States.

This award was presented at the recent annual meetings of the American Phytopathological Society at Michigan State University. The award is sponsored by the CIBA-Geigy Corporation and consists of a certificate and an expense paid trip to their research center in Basel, Switzerland. It is given to the plant pathologist who has made significant recent contributions to advance the knowledge of plant diseases or their control.

Abawi, among his many research activities at Geneva, has made an extensive study of white mold disease, a fungus

which causes severe damage to snap bean plants, especially under New York climatic conditions.

He also has been studying root rot disease of snap beans and table beets.

He is a native of Mosul, Iraq and earned his B.S. degree from the University of Baghdad in 1962. His master's and doctorate work were done at Cornell University with degrees for each being awarded in 1965 and 1970 respectively. From 1970 to 1972, Abawi was a postdoctoral fellow in nematology at Cornell.

He joined the faculty of the New York State Agricultural Experiment Station at Geneva in 1972 as an assistant professor. In 1975, Abawi spent a study leave at the University of California, Davis.

Recital to Present Student Compositions

"Original Works," a recital of music by Robert Lawson and James Edward Tharp, will be presented at 8:15 p.m. Sunday, Oct. 23 in Barnes Hall Auditorium.

Tharp has studied composition with Karel Husa. The program will include his "Four Pieces on the Name Bach" for two flutes; "Ravenna," a setting of two Hesse poems for baritone, soprano sax, oboe, English horn and bassoon; "Les Fleurs du Mal" for three recorders, guitar, and dancers, choreographed by Alix Keast; and "Haley's Comet,"

music for a production of Samuel Beckett's "Endgame," scored for three violins and French horn.

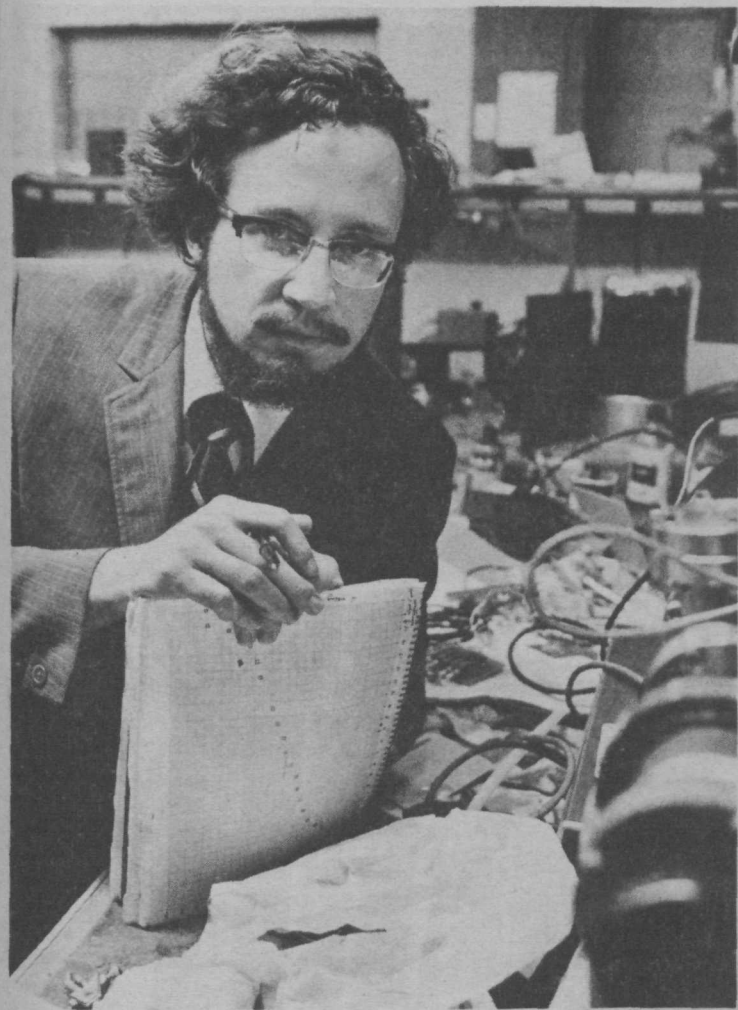
Lawson, '74, presently a Cornell employee and graduate student in physiology, has studied composition at the Eastman School of Music in Rochester. Three of his works will be performed: "Five," a group of piano pieces; "Night Songs" for four unaccompanied voices to texts by Terry Andrews and W. H. Auden; and "Billy in the Darbies" for baritone and piano, text from Herman Melville's "Billy Budd."

Computer Seminar Topic Is Regression Programs

The Office of Computer Services has announced the seminar "Evaluation of Packaged Regression Programs" or "A Consumer's Guide to Regression Programs at Cornell" to be held at 3:30 p.m. on Friday, Oct. 14, in G-14 Uris Hall. The speakers are Paul Velleman, assistant professor, Department of Economics and Social Statistics, ILR, Elaine Allen of the same department, and Jeff Seaman, Department of Sociology, Arts and Sciences. They will talk on

the results of their comprehensive evaluation of regression in such packages as SAS, SPSS, BMDP, MINITAB and GENSTAT. Guidelines for choosing an appropriate statistical program package for regression will be suggested. Users of such facilities who do not have a sophisticated knowledge of statistics are particularly encouraged to attend.





Gregory Williams

Space Energy Stations

Cornellian Sees Possibility

A new type of solar cell invented at Cornell could prove to be the key to the success of proposed electrical generating stations in outer space.

Such stations, which would utilize sunlight to make electricity, are being seriously considered as a possible long-range answer to the earth's energy needs. The National Aeronautical and Space Administration (NASA) is planning to launch a prototype power station by the end of this century.

One of the key problems is developing an efficient solar cell. According to Gregory Williams, a research associate at Cornell, he may have the answer. The solar cell he has invented could be unrolled in orbit as square miles of micro-thin plastic or flexible glass sails. The sails would convert sunlight directly to high voltage electricity at megawatt levels, he says.

The electricity, he explains, could be easily converted to microwave energy and beamed back to earth at a harmless wavelength where it would be

reconverted to electrical power.

Williams's invention, which has been approved for patenting by the U.S. Patent Office, utilizes a heretofore impractical means for generating electrical energy from sunlight. It is known as photoemission. In photoemission the sun's rays, that is photons, knock negatively charged electrons out of orbit from a target material permitting them to fly into open space. The problem has been to capture these freed electrons so they can be built into a substantial electrical charge.

In regular solar cells the electrons knocked loose by photons are scattered within a solid material where the electrical charge builds up and is tapped for use. These are known as photovoltaic cells and have been used in the nation's space program. Currently these kinds of solar cells are not practical on earth or in outer space for generating the massive amounts of energy required to make a contribution to the world's overall energy shortage.

The keys to Williams's solar cell are its geometry, lightness and apparent cheapness. While similar in texture to the surface of a phonograph record, the new cell will be based on a multitude of mountains and valleys over the surface of the micro-thin sail-like cells. One side of the ridges will be exposed to the ceaseless photon barrage from the sun while the other side will be in shadow collecting the freed electrons. In this way the sun side will feed the shadow side in an endless buildup of voltage which can be tapped at any level desired. Each so-called mountain or ridge will be insulated from the other. Part of the efficiency of his scheme, says Williams, is that it takes advantage of the vacuum of outer space. The same cell on earth would lose its freed electrons to the at-

mosphere almost immediately.

However, he thinks it is possible to seal the sheets of the solar cell in a vacuum sandwich of the same flexible material for use on Earth. These equally flexible, micro-thin vacuum cells could be spread on the rooftops of homes where they might generate enough power, he estimates, for a normal home. They also could be spread over large areas of desert generating high levels of energy to be fed into the nation's electrical power grid.

The principles of his scheme have been proved in the laboratory, but in practice there may be certain technical barriers, Williams says. For example, the cell depends on a coating of highly efficient photoemissive material, such as gallium arsenide with a monolayer of cesium oxide, over the plastic or glass base. Until it is tried it is not known whether this material or other material similar to it can be applied properly to the base.

He pointed out that while all materials including the proposed glass fused quartz, or plastic bases have photoemissive properties, certain materials of which gallium arsenide with a monolayer (or sub-monolayer) of cesium oxide is the best, increase this characteristic by as much as a million times.

At 31, Williams is a research associate in the magnetospheric physics group of the School of Electrical Engineering at Cornell. Born in Pasadena, Calif., he was educated in the United States and abroad and received his doctorate in astrophysics from Cornell in 1976. He came across his idea, he said, while discussing how to solve the interference with instruments sent into outer space caused by unwanted electrical charges around them due to photoemission.

He turned a nuisance into a potential boon to mankind.

Help Sought on Title IX

The Provost's Advisory Committee on the Status of Women at Cornell University is seeking the assistance of anyone interested in helping the committee followup on Title IX problem areas, according to Ann Roscoe, staff coordinator of the committee.

The committee, which is led this year by Florence Berger, associate dean of students, was given continuing responsibilities for Title IX last fall. Title IX of the Federal Education Act Amendments of 1972 considers sex discrimination in all areas of the University.

"Anyone interested in offering assistance to any of the seven subcommittees involved with Title IX should contact either the chairperson or me," Roscoe said. Her office is 308 Day Hall; her telephone number is 256-7596.

The Title IX subcommittees and their chairpersons are: academic employment (Ethel Samson), non-academic employment (Jennifer Gerner), publications (Nancy Meltzer), grievances (Danilee Poppensiek), advising and counseling (Joycelyn Hart), admissions (Jane Gibson) and physical education and athletics (Connie Murray).

Ruth W. Darling will serve this

year as Title IX coordinator.

The membership of the Provost's Advisory Committee represents constituencies on campus as follows:

Faculty members of the committee are Alice Cook, Linda Waugh, Karen Brazell, Fran Herman, Christine Shoemaker, Nancy Saltford, Katherine Houpt, Gibson, Samson and Gerner.

Employee members are Tamar Rogachefsky, Barbara Jordan, Kelani Woodruff, Berger, Meltzer, Poppensiek, Murray and Hart. Marcia Jebb represents library employees. Tucker

McHugh is the committee's liaison with the Women's Caucus.

Student members are Vicky Oransky, Ellen Tuttle and Lydia Bukowy.

There are currently openings on the committee for women representing research associates, extension associates, lecturers and instructors.

Since the committee was organized in 1972 it has been involved with the task of making sure University policies do not affect women differently from men.

Cornell Receives CIA Documents

University officials Tuesday made public documents which they obtained, as requested, from the Central Intelligence Agency (CIA) concerning the University's participation in the CIA-sponsored MK-ULTRA research project conducted in the 1950s.

The heavily deleted documents—mainly budget and financial vouchers—were received by Cornell from the CIA's Office of General Counsel.

The letter of transmittal said the documents were in the same form in which they have been made available to the public except that "the name of the University has been reinserted wherever it appears in the original documents." The deletions in the documents, according to the CIA, include the names of all other institutions and organizations, all individuals, and certain CIA employees.

In releasing the documents, W. Donald Cooke, Cornell's vice president for research, said, "It must be remembered that all the events reported in the CIA documents happened some 20 years ago, in a different time, in a different social and political climate."

Friedman Lecture Film And Videotape Erased

The undeveloped 35 mm film and videotape taken by the Cornell Division of Public Safety at the Milton Friedman lecture on Tuesday, Sept. 27, 1977 has been destroyed or erased.

Vice President for Campus Affairs William D. Gurowitz said the film was destroyed and the videotape erased in keeping with University policy which states that such action must be taken if after a period of seven days

following the event no complaints or charges have been filed.

Gurowitz said there have been no complaints or charges, so Public Safety has complied with the destruction and erasure policy.



Bicycle Accidents Cause Crackdown

Several recent accidents on campus involving bicycles have led to an announcement by the Department of Public Safety that it will step up enforcement of flagrant vehicle and traffic violations by bicyclists.

Captain J.W. Cunningham, deputy director for operations, said violators will be subject to referral to the Judicial Administrator or the local courts.

Cunningham said that the department encourages the use of bicycles, and that cyclists will not be singled out; motorists who do not honor the cyclists' right of the road will also be warned or issued summonses.

He said, however, that recent increased use of bicycles has created repeated reports of such violations as ignoring traffic control devices, riding the wrong way on a one-way street, speed too fast for road conditions and improper lighting or no lighting at night.

He said information on bicycle safety and security is available at Public Safety headquarters, and for a 50-cent fee cycles will be issued a City of Ithaca Registration permit, a good deterrent to theft.

Ornithology Lecture on Loon

Judith MacIntyre of the Department of Biology at Syracuse University will discuss "The Behavior and Ecology of the Common Loon" at 7:45 p.m. Monday, Oct. 17, at the Cornell University Laboratory of Ornithology, 159 Sapsucker Woods Road.

Her lecture, which is free and open to the public, is part of the laboratory's regular Monday evening seminar series.

Investment Advisory Committee Changes

Membership on the Investment Advisory Committee (IAC) will not be trustees only, the Investment Committee of the Board of Trustees has decided.

Committee Chairman Nelson Schaenen Jr. said after meeting last weekend with members of the Campus Council, including Chairman David L. Ratner, the Investment Committee voted that membership on the IAC would continue to be chosen from among the broad campus constituency, as well as trustees. Members are to be chosen by the Campus Council from three constituencies—one each from the faculty, students and employees. The Investment

Committee will appoint three members as well.

The IAC makes recommendations to the Investment Committee on how the University's proxies on shareholder proposals should be voted. Previously, membership on the IAC consisted of eight persons, four appointed by the University Senate and four by the Investment Committee.

Schaenen said an earlier proposal made to the Campus Council that all IAC members should be trustees was changed in order to make it clear that the Campus Council will make the appointments to the IAC from the campus community.



The Panes of Cornell



Awards, Honors

Asdell

Sydney A. Asdell, professor of animal physiology emeritus at the State College of Agriculture and Life Sciences has been presented the Marshall Medal of the Society for the Study of Fertility in Dublin, Ireland.

Asdell, who now lives with his daughter Mary Asdell in Frederick, Md., received the award in Dublin this week at the Society's annual meeting. He was recognized for his distinguished work in reproductive biology.

A pioneer in his field, his major research contributions were in establishing the basic mechanisms of reproduction in domestic animals. Many of the practices currently used in the artificial insemination industry are based on his early findings concerning the time of ovulation, and rates of passage of sperm and eggs through the reproductive tract.

Bronfenbrenner

Urie Bronfenbrenner, an international authority on child development, has received the Kurt Lewin Award for 1977 from the Society for the Psychological Study of Social Issues, a division of the American Psychological Association.

Bronfenbrenner is professor of human development and family studies at the State College of Human Ecology and a professor of psychology. He also holds a Jacob Gould Schurman professorship at Cornell.

The Kurt Lewin Award, the nation's highest honor in the field of social psychology, is given each year for "outstanding contributions to the development and integration of psychological research and social action."

Bronfenbrenner is one of the founders of Head Start, the preschool education program, and has participated in several

federal and international commissions on children.

Morrison

George H. Morrison, professor of chemistry at Cornell University, has been selected to receive the 1977 Benedetti-Pichler Award of the American Microchemical Society. The award, the highest honor bestowed by the society, will be presented to Morrison at the annual meeting of the Federation of Analytical Chemistry and Spectroscopy Societies in Detroit in November.

Morrison is being honored for his contributions to microanalysis using ion microscopy to investigate the chemistry of microstructures of solids.

This new technique, which provides chemical identification and determines possible compositional variations existing between different minute features at the micrometer level, is being applied by Morrison to problems in metallurgy, semiconductor devices, geology, and biology and medicine. At the present time, Cornell is the only American university to have an ion microscope.

In addition to his research accomplishments, Morrison is being cited for his contributions to the advancement of the discipline of microchemistry internationally as chairman of the Commission on Microchemical Techniques and Trace Analysis of the International Union of Pure and Applied Chemistry.

Morrison received his bachelor's degree from Brooklyn College and his Ph.D. in chemistry from Princeton University in 1948.

After receiving his Ph.D., he taught at Rutgers University, served as a research chemist for the U.S. Atomic Energy Commission, and from 1951 to 1961 was head of inorganic and analytical chemistry at the General Telephone and Electronics Laboratories.

He joined the Cornell faculty in 1961 as professor of chemistry and director of the analytical facility of the Materials Science Center.

Webster

James Webster, associate professor of music at Cornell, is the 1977 recipient of the Alfred Einstein Award from the American Musicological Society. The award is given annually to a

young American or Canadian scholar whose article on a musicological subject published the previous year is deemed the most significant by the awards committee. To qualify, an author must be under 36 years of age and have held a Ph.D. for less than five years.

Webster's article, "Violoncello and Double Bass in the Chamber Music of Haydn and his Viennese Contemporaries, 1750-

1780," appeared in Vol. 29 (1976) of the "Journal of the American Musicological Society."

Webster, a member of the University faculty since 1971, is an editor of the complete edition of Haydn's music, in progress, and also editor of the Report of the International Haydn Conference, Washington, D.C., 1975. His articles on Haydn have been published widely.

Labor Relations Award Given

Two Cornell University alumni prominent in the field of labor relations will be co-recipients of the seventh annual Judge William B. Groat Alumni Award at an awards dinner in Washington, D.C. on Wednesday, Nov. 9.

William J. Kilberg, resident partner in the Washington office of the New York law firm of Breed, Abbott & Morgan, and Paul Yager, director of Region I of the Federal Mediation and Conciliation Service, are the 1977 Groat winners. Both are graduates of the New York State School of Industrial and Labor Relations (ILR) at Cornell.

The awards dinner is set for 6:30 p.m. at the Hyatt Regency Hotel.

The Groat Award is given annually in recognition of Judge Groat's contribution to the establishment of the ILR School at Cornell. As counsel to the New York State Joint Legislative Committee on Industrial and Labor Relations, Judge Groat played a major role in the thought, action and legislation that brought the school into existence in 1944.

At the time, the ILR School at Cornell was the first institution of its kind in the country. It is still the only college in the United States that offers a four-year program leading exclusively to the Bachelor of Science degree in the field.

Since the school's creation, Judge Groat has served as a member of the ILR Council.

Kilberg, who assumed his present position earlier this year, had been solicitor for the U.S. Department of Labor. He was associate solicitor of labor for labor relations and civil rights from September 1971 to March 1973.

A 1966 Cornell graduate, Kilberg became associate solicitor after a year as general counsel of the Federal Mediation and Conciliation Service. In 1969-70, he was a White House Fellow at the Labor Department.

Kilberg attended Cornell on a scholarship given by Local 3, International Brotherhood of Electrical Workers. While attending Cornell he worked summers as an apprentice electrician with Local 3. He received his J.D. from Harvard University Law School in 1969.

Kilberg is a 1975 recipient of the Arthur S. Fleming Award, given by the D.C. Chamber of Commerce. In 1973 he received the Outstanding Service to the Spanish Speaking Award from the League of United Latin American Citizens.

Yager has held his present position since 1973. The region which he heads for the Federal Mediation Service encompasses New England, New York and northern New Jersey. He supervises a staff of some 60

people with an annual caseload of approximately 1,500 active cases.

In 1951 he became a trainee with the service. The following year he was transferred to Philadelphia where he served as a mediator until 1961. That year he was named assistant regional director, a position he held until moving to his present assignment.

Yager earned his bachelor's degree at New York University in 1942. He entered the U.S. Navy the same year and spent most of World War II assigned to a destroyer in the Mediterranean, leaving the Navy as a lieutenant in 1945.

Subsequently, Yager entered the ILR School at Cornell and earned his master's degree in 1949. Later that year he went to work for the U.S. Bureau of Labor Statistics in Washington.

Previous award recipients are: Richard N. Goldstein, vice president of labor relations with the National Broadcasting Co.; attorney Gerald L. Dorf; Paul J. Fasser Jr., assistant secretary of labor; Robert D. Helsby, chairman of the New York State Public Employment Relations Board; Chris Argyris of Harvard; Eric F. Jensen, vice president for industrial relations of ACF Industries, and Jacob Sheinkman, general secretary-treasurer, Amalgamated Clothing Workers of America, AFL-CIO.

Alcohol/Drug Use Survey Planned

The Alcohol/Drug Education Committee, appointed by the dean of students, is planning a campus-wide telephone survey starting Friday, Oct. 14, to assess student, faculty and staff perceptions of alcohol and drug use within the Cornell community.

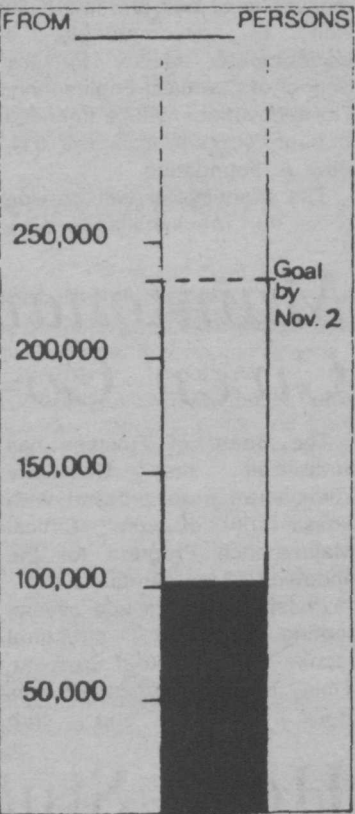
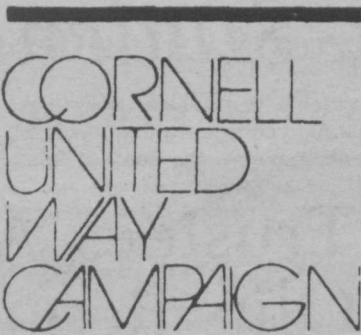
Thomas R. Fiutak, assistant dean of students and committee chairman, said an approximate 4 per cent sample of the 22,500 students, faculty and staff will be randomly chosen for the survey. CAMPOLL, a community polling service of the Office of Institutional Planning and Analysis, will conduct the

telephone poll.

Fiutak said all responses will be recorded in such a way that they will be anonymous when tabulated.

He said the survey will be the first step towards gathering data on this campus issue. "Up until now there have been only inferences about alcohol and drug use on campus, but this represents the first step in gathering data on the subject," he said.

The information will be used to develop appropriate "intervention programs" responding to the needs of the Cornell community, as indicated by the survey, he said.



In the first week of the Cornell United Way campaign, 843 have pledged \$101,000, which is 43 per cent of the goal. Last year at this time, 635 pledges had been received for 19 per cent of the goal.

Trustees Seek Charter Change

The Board of Trustees last weekend authorized the University Administration to draft a bill for introduction in the 1978 State Legislature providing for an amendment to the University Charter to reduce the number of faculty trustees from six to five and increase the number of members at large from 21 to 22 in order to provide for a second employee trustee.

The draft legislation will be reviewed by the Executive Committee before a final decision is made to submit it.

If the charter amendment is approved by the Legislature, the University Bylaws will be amended to provide for a second seat among the members at

large to be held by an employee elected by the University's nonacademic employees.

This action provides the enabling legislation for a decision already made by the board in March. Acting in response to the Chester Commission Report, the board had decided to reduce the faculty trustees from six to five by eliminating the faculty trustee elected by students. The action does not reduce the number of faculty trustees elected by faculty.

William D. Gurowitz, vice president for campus affairs, said the intent would be to hold elections for the second employee trustee position this spring.

Humanistic Chair Established

An endowment to Cornell University from West Coast publisher Bryce Bowmar and his wife, Edith, has enabled Cornell to establish an endowed professorship in humanistic studies.

Brian Tierney, former Goldwin Smith Professor of History at Cornell, has been elected the first Bryce and Edith M. Bowmar Professor in Humanistic Studies.

Bowmar, a 1940 Cornell graduate, founded the Bowmar Publishing Corp., of Los Angeles, Calif., in 1949. He and his wife have established separate trust funds to endow the professorship at Cornell and a scholarship fund in their names.

Historical Association and in 1964 was awarded an honorary degree of Doctor of Theology by Uppsala University, Sweden. He

is a Fellow of the Medieval Academy of American and a Councillor of the American Catholic Historical Association.

Community Needs, Volunteers Matched

By MARY McGINNIS
CIVITAS COORDINATOR

The CIVITAS office serves the community by assisting human service agencies when specific requests for help arise, and also assists students and others in locating places to volunteer which are of particular interest to them.

Frequently at this point in the semester, students find unanticipated free time they would like to fill by doing something of personal value. If you are looking for an opportunity to explore a potential career area, experience a change of pace, or meet some community people by working off the campus a few hours a week, we are set up to help you locate a place to do it. Come in to the CIVITAS office, Monday through Friday, between 10 a.m. and 2 p.m. and talk with us.

CURRENT NEEDS

RECENTLY REORGANIZED DRUG AND ALCOHOL CRISIS COUNSELING CENTER: Training sessions begin Tuesday, Oct. 11 and, if volunteer interest is high, also on Tuesday, Oct. 18 for evening hot-line and drop-in service. Eight hours a week commitment will be expected for the balance of the academic year after training.

CAMPFIRE GIRLS: Swim program, Tuesday evenings, 7 to 8:30 p.m., Oct. 11 through Dec. 13, volunteer life guards are needed. WSI required. Ithaca High School pool.

PROTESTANT CHURCH AT CORNELL, ANABEL TAYLOR HALL: Searching for volunteer typist to give a few hours a week, anytime between 9 a.m. and 5 p.m., Monday through Friday.

AFTER-SCHOOL PROGRAM FOR ELEMENTARY-AGE CHILDREN needs volunteer helpers, daily through the week, 3 to 5:30 p.m. Downtown location. No special skills needed. Opportunity to try out own program ideas with help and supervision.

To respond, please call CIVITAS, 256-7513, Monday through Friday, from 10 a.m. to 2 p.m., or drop by Room 125, Anabel Taylor Hall, or call the Voluntary Action Center, 272-9411, Monday through Friday, 9 a.m. to 4 p.m., Saturday 9 a.m. to 1 p.m.

Council Sets Up Policy Review

The Campus Council has appointed an ad hoc committee to review current University policy pertaining to demonstrations and potential disruptions of public events on campus.

The committee, chaired by Robert McGinnis, professor of sociology, will attempt to clarify University policy and determine if it differs from an earlier recommendation passed by the defunct University Senate in April 1972 concerning the taking of photographs at campus events.

The issue of taking photographs as a means of identification of individuals involved in violations of the law or University regulations surfaced recently after a lecture by economist Milton Friedman Sept. 27.

The Senate bill, called SA-138, recommended that the Safety Division take pictures "only when its officers have 'probable cause' to suspect the commission of an illegal act, i.e. — only when they would otherwise make arrests."

Besides adopting a photography policy, the University has established written guidelines to be followed at potentially controversial events, according to William D. Gurowitz, vice president for campus affairs. The guidelines, he said, include provisions for a floor manager and moderator and specify possible alternative measures to be taken in case of disruption during an event.

The council committee is expected to report back to the full group at the next scheduled council meeting.

A second committee was appointed to suggest procedures for soliciting campus-wide opinions on possible adjustments to be made in the academic calendar. The committee will focus its attention on four questions: whether or not the beginning of the semester should be post-

poned until after Labor Day, observance of religious holidays, the feasibility of providing a fall semester break and the problem of Commencement falling on Memorial Day.

The two graduate student vacancies on the council have been filled by David E. Eaton and William S. Mandel. The Committee on Committees selected the two representatives from among 33 graduate student applications. COC chairman Scott E. Robinson, Arts and Sciences '78, reported that student and employee appointments to all committees were completed, except for certain freshman and faculty vacancies.

The COC will also select three nontrustee members — one faculty, one student and one employee — to serve on the Investment Advisory Committee, which makes recommendations to the Investment Committee of the Board of Trustees on how the University's proxies on shareholder proposals should be voted.

The student trustee seat on the council will be filled on a rotating basis by student trustees Roland A. Foulkes, Arts and Sciences '78, and Keith Said, graduate student, Neil V. Getnick, Law '78, and Martin D. Robinson, Arts and Sciences '79, will rotate responsibility for maintaining weekly office hours on Tuesday from 8 to 10 p.m. at the Willard Straight Hall Ivy Room.

The arrangement for filling the vacancy was decided by the four student trustees who issued a joint statement to the council indicating their reasons for the decision: "As student trustees we firmly believe in actively involving ourselves in campus governance and in interacting with and being generally accessible to the student body at Cornell."

Campus Council Names Committees

Following is a list of the Campus Council standing and associated committees. All committees are not complete; the vacancies have been noted where applicable. Faculty members are selected by the Faculty, and freshmen appointments will be made by the committees concerned. Any freshman interested in serving on the Dining, Residence Life or Student Life committees should apply to the Campus Council Office, 133 Day Hall.

Eugene Cunningham, Engineering '79; Ronald Donovan, Faculty; Joan Egner, Faculty; Jody Katz, A & S '78; Lehmann Li, A & S '78; Lawrence Munn, Employee; Martin Sampson, Faculty; Antoinette Wilkinson, Employee; Scott Robinson, A & S '78.

CODES AND JUDICIAL COMMITTEE:

David Danelski, Faculty; Robert Hopkins, Employee; Bruce Katz, A & S '80; Elmer Meyer, Employee; Wolfe Nadoolman A & S '79; Sarah Salter, A & S '78; 2 Faculty vacancies.

STUDENT LIFE & ACTIVITIES:

David Beaulieu, Engineering '80; Christine Engfer, Human Ecology '80; Robert Gluck, Agriculture '79; William Jones, Employee; Holly Rosenthal, Human Ecology '78; Rhonda Weingarten, ILR '80; 1 Freshman vacancy; 1 Grad student vacancy; 1 Faculty vacancy.

COMMITTEE ON RESIDENCE LIFE:

Albert Biasello, Engineering '79; Brenda Bricker, Employee; Sharon

Cerasoli, Human Ecology '78; Cory Millican, Faculty; David Peters, A & S '78; Ralph Sacco, Engineering '79; Cheryl Slinger, A & S '80; Randy Stratt, A & S '78; Ronald Taylor, Agriculture '79; 1 Freshman seat.

DINING SERVICES COMMITTEE:

Edward Blodgett, A & S '80; Stanley Davis, Faculty; Reginald Durden, ILR '80; Willard Hunt, Employee; Caren Pearlstein, ILR '79; Vincent Splett, Engineering '80; 1 Faculty vacancy; 1 Freshman vacancy.

BOARD ON STUDENT HEALTH:

Roger Battistella, Faculty; John Doris, Faculty; Joan Kent, A & S '80; Lee Schruben, Faculty; Scott Whitcup, A & S '80; Mark Zweibel, Grad student; Debra Zimmerman, Ag & Life Science '79; 1 Faculty vacancy.

TRANSPORTATION COMMITTEE:

Gertrude Fitzpatrick, Employee; Annin Meyburg, Faculty; Douglas Quine, Grad student; Mark Szarnicki, Engineering '80; David Wheeler, Architecture '80; Muriel Waisley, Employee; 2 Faculty vacancies.

Alternates:

Aviv Goldsmith, Agriculture '80; Mikki Parsons, Employee.

CAMPUS STORE BOARD:

Douglas Brownstone, Eng. '79; Jeff Burdyl, A & LS '79; Don Eddy, Faculty; Douglas MacLeod, A & S '79; Alain Seznec, Faculty; Ian Stewart, Faculty; Ellen Wells,

Continued on Page 10

Graduate Record Examination Room Assignments

Saturday, October 15

Morning Session - 8:30 A.M.

ADAMS - CERNEK	Hollister B14
CHAK - FEINERMAN	Phillips 101
FEINSTEIN - HETHERINGTON	Upton B17
HENDENLANG - KENNAN	Thurston 203
KENOWSKY - LOUKIDES	Thurston 205
LOVELL - REMER	Statler 434-7
RESNICK - STROBEL	Statler 334
SUN - WIDLI	Statler 438
WILLIAMS - ZULLOW	Statler 217
All Walk-ins	Statler 217

Afternoon Session - 1:30

24-34 (Biology-Education):	Statler 434-7
37-57 (Engineering - History):	Statler 438
64-81 (Literature in English - Psychology):	Statler 334

First Meyers Professor Named

Robert S. Smith, professor of farm finance, has been named the first William I. Myers Professor in Agricultural Finance by the Cornell University Board of Trustees.

This new endowed chair in the State College of Agriculture and Life Sciences is a memorial to former dean and faculty member William I. Myers, who developed the concept of the Farm Credit Bank System in the United States.

Myers's ideas formed the foundation for the legislation that created the Cooperative Farm Credit System. He was appointed the second Governor of the Farm Credit Administration by President Roosevelt, and also advised presidents Truman and Eisenhower, several New York State Governors, the State Legislature, and numerous commissions, committees, founda-

tions and businesses in the field of agricultural finance.

Indeed, funds for the endowed professorship were contributed by many of the organizations served by Myers, including foundations, businesses, and financial institutions serving agriculture, as well as faculty, alumni and friends of the former dean. Fund-raising efforts for the W.I. Myers Professorship are still underway.

Reading Study Center Corrects Bad Habits

By DAVID STOCKER ARTS '79
Information and Referral Center

If you are an average reader it is likely that you forget 50 per cent or more of what you read, even when you concentrate on a text. Learning and studying skills are especially important to anyone trying to absorb knowledge.

The Reading Study Center, under the direction of Prof. Walter Pauk, deals with the problems of poor study habits among students. It is located in 375 Olin Hall (Chemical Engineering building). Pauk has spent nearly 30 years doing research on the processes of reading, learning, and memorization. The center offers a six-week course of 12 lectures, free of charge, to any student registered at Cornell who wishes to improve his or her study skills. Eight different sections meet twice weekly.

The center also offers a more concentrated three-week course prior to final examinations each semester. Students may take the course on their own time using a new cassette series and the listening facilities at the center. Pauk teaches a similar course to visiting executives on summer programs in the Business School.

Many universities offer speed-reading classes and most learning skills instruction in the past has been aimed at improving reading speed. Pauk, who has written more than 100 articles and several books on the subject, believes the concept of speed reading dynamics is a hoax. Experimental studies show that the eye cannot physically take in more than 300 words per minute without skipping some material. An exceptionally high reading speed would be on the order of 700 words per minute.

Scanning materials can be a useful study technique only on occasion. Commercial courses are often expensive and they do little to improve comprehension or memory, according to Pauk.

The Reading Study Skills course at Cornell does not emphasize speed reading. Instead, the lectures cover such topics as: organization of time, reading texts with better comprehension, note-taking and remembering, listening, skimming and scanning of material, writing papers and reports, cramming, exam-studying and exam-taking technique.

The center now deals with approximately 400 students per year. Pauk hopes to increase that figure by making the cassette tape service available through the libraries and student unions in the near future. He is presently developing a course on listening with emphasis on lecture note taking.

Any student interested in registering in a course may visit 375 Olin Hall, Monday-Friday, 8 a.m.-5 p.m., or phone the center at 256-3413.

New Vet Chairman Appointed

Dr. Alexander deLahunta, professor of veterinary anatomy and director of the Veterinary Medical Teaching Hospital at the New York State College of Veterinary Medicine, Cornell University, has been appointed chairman of the new Department of Clinical Sciences at the college. He also will continue as director of the teaching hospital.

The Department of Clinical Sciences was created by the University's Board of Trustees at its September meeting.

Dr. deLahunta, whose specialties include anatomy, neuroanatomy, clinical neurology and neuropathology, is a charter diplomate of the American College of Veterinary Internal Medicine.

Dr. deLahunta received the D.V.M. degree from Cornell in 1958, and after two years in private practice, returned to the college to work toward the Ph.D., awarded in 1963.

Student Publishes Book

Some people work their way through college waiting tables or selling magazines. Beatrice Ross

Buszek, who returned to Cornell this fall after a 13-year absence to finish her doctorate, is doing it

by writing and publishing a book. "The Cranberry Connection," on sale at the Campus Store and in most local bookshops, is a collection of 360 cranberry recipes compiled by the author, who describes her work as "the scoop of the year."

Buszek, who most recently was an associate professor at Acadia University in Nova Scotia, lives in an old house overlooking a deserted cranberry bog in Nova Scotia's Annapolis Valley. When the berries ripened last fall, she scoured old books and magazines for hard-to-find cranberry recipes, created concoctions in her kitchen and begged favorite recipes from friends.

The book also includes a social history of the cranberry — including the many links between Nova Scotia and the "Boston States," especially Cape Cod where the first cranberry was cultivated in 1816.

Buszek left Cornell in 1964 to become the first Cornellian to work on an exchange program with Hampton Institute in Virginia. At Hampton, she taught social psychology and worked in various ways to develop the exchange program.

But she put off finishing her doctorate until her three children were out of college. Her youngest son is in his last year, her daughter graduated from college this summer and her oldest son is working on a Ph.D. at Berkeley.

Trustees Authorize Olin Renovation

The University's Board of Trustees has authorized the renovation of two rooms in Olin Hall to accommodate a minicomputer facility for the School of Chemical Engineering. The renovations will be financed through a grant from the J.N. Pew Jr. Foundation.

The renovations will provide space for the installation of a

PDP 11-70 minicomputer recently purchased to modernize laboratory and design courses in chemical engineering and to serve several new research programs in the school. The modification of the two rooms is designed to maximize the reliability of the computer's performance, its accessibility to users and its security.

Maintenance Plan Given Go-Ahead

The Board of Trustees has authorized the University administration to proceed with Phase III of the Critical Maintenance Program for the endowed Ithaca campus.

Phase III will include several roofing projects; structural repairs to Schoellkopf Crescent, Sibley, Myron Taylor and Hughes Halls; paving and curb

replacement on Central Avenue; repair of walks and curbs on Tower Road; partial replacement of walks at Baker Dormitories, and repair of the primary electric system in Franklin.

Phase III also provides for studies of critical maintenance needs in several other academic buildings and residence units.

Hotel Students Win Scholarships

Five students in the School of Hotel Administration were selected last spring for the first annual Hotel & Travel Index/Cornell University work-study scholarship program.

Announcement of the winners was made by Index Publisher

Melinda Bush and Hotel School Dean Robert A. Beck.

The students, and their assignments at participating hotels and travel agencies in the program, were as follows: Douglas H. Fyffe of Altamont, N.Y., assigned to Marriott Twin Bridges, Washington, D.C. and VIP Travel, Falls Church, Va.; Andrew S. Gabriel of Bedrod, N.Y., to Hyatt Regency and LaSalle Travel, Chicago, Ill.;

Grace Leo of Los Angeles, Cal., to Sheraton Park and Waters Travel, Washington, D.C.;

Maureen McKenna of Newfield, N.Y., to Americana and Stark Travel, New York, N.Y., and Constance A. Molnar of Ithaca, N.Y., to the Plaza and Sarah Marquis Travel, New York, N.Y.

CU Meets IC for Baseball

Two of the top collegiate baseball teams in New York State, Cornell University and Ithaca College, will meet in a doubleheader Saturday at Hoy Field.

The two nine-inning games, which will begin at 12:30 p.m., are open to the public free of charge.

Last spring Cornell compiled a 29-15 record and captured the Eastern Intercollegiate Baseball League for the first time. Ithaca College also had an excellent year with a 20-5 record.

Council Committees

Continued from Page 9

Employee; Diedrich Willers, Employee; 2 Faculty vacancies. UNIVERSITY UNIONS BOARD OF GOVERNORS:

Diane Baker, Employee; Andre Balazs, A & S '78; Joan Bozek, Noyes Center Board Chairperson; Frank Clifford, Alumni; Steve Gelb, University Unions, Program Board Chairperson; William D. Gurowitz, Vice President of Campus Affairs; Steve Halperin, North Campus Union Board Chairperson; Bob Horowitz, Concert Commission Chairperson; Wendy Lidell, Cinema Advisory Board Chairperson; Don Shoemaker, Willard Straight Hall Board Chairperson; Marcy Wachtel, A & S '79; Nathan Weiss, A & S '80; 1 Faculty vacancy.

CORNELL UNITED RELIGIOUS WORK BOARD:

Mary Lee Bishop, Chaplain; Gurdon Brewster, Chaplain; Paul Gibbons, Director of Meadow House; William Gibson, Director of Eco-Justice Project; Morris Goldfarb, Chaplain; Alice "Sunny" Hallanan, A & S '79; Miriam May, ILR '78; Samuel Perry, Chaplain; William Rogers, Chaplain; Margaret Stout Thomas, Employee; Deborah Webster, Agriculture '79; Barry

Wold, Law '80; 1 Faculty vacancy to be appointed by faculty; 6 members at large to be appointed by CURW Board.

PRIORITIES COMMITTEE:

Harold Bierman, Faculty; Richard Church, Employee; Matthew Filler, B & PA '79; Heidi Hutter, A & S '79; Walter R. Lynn, Faculty; Claire Nagel, Employee; K.C. Parsons, Deans' Council appointment; Matthew Shulman, Grad student; 1 Faculty vacancy.

COMMITTEE ON UNIVERSITY AS AN EMPLOYER:

John Howe, Employee; William Korbel, Employee; Joseph Preczewski, Employee; Sharon Rothschild, Human Ecology '78; Peg Unsworth, Employee; Dominic Versage, Employee; Alice Wells, Employee; Shelly Winograd, Grad student; 2 Faculty vacancies. CAMPUS PLANNING COMMITTEE:

Henry Clark, Architecture '79; Henry Doney, Employee; Harry Everhart, Faculty; Michael Fay, Engineering '78; Keith Grey, Faculty; Robert Holdsworth, A & S '78; Tom Johnson, Faculty; Armin Meyberg, Faculty; Richard Penner, Faculty; Mario Schack, Faculty; Louise Segreto, Agriculture '79; Sharon Staz, Employee.

Thursday, October 13, 1977

Bulletin Board

Freshman Registers Available

Cornell Freshman Registers may still be purchased at the Alpha Phi Omega Office, 21 Willard Straight Hall, until Oct. 15.

Plant Sale To Be Held

The Cornell Plantations is holding a plant sale from 9 a.m. to 1 p.m., Saturday, Oct. 15 at the Plantations Service Building.

Bloodmobile Planned

The Tompkins County Red Cross will hold a bloodmobile from 9:30 a.m. to 3:15 p.m., Tuesday, Oct. 18 and Wednesday, Oct. 19 at Barton Hall. Call the Red Cross at 273-1900 for an appointment, sign up at the Straight on Oct. 11, 12 or 13, or just walk in. The program is being sponsored by the Army ROTC.

Band to Give Free Concert

The Cornell University Symphonic Band will give a free concert at 4:45 p.m. Monday, Oct. 17 in the Willard Straight Memorial Room. The event is open to the public.

Improving Marriage Program

EARS is sponsoring a program on "Making Good Marriages Better." Jack Lewis, director of Religious Affairs will talk on ways of communicating and making the most of the time you have together. 8-10 p.m., Tuesday, Oct. 18, North Campus Union Multipurpose Room.

Lecture on Yogi Planned

A philosopher and educator E. Hans Freund, will discuss the teachings of Maharishi Mahesh Yogi at a special open lecture

at 7:30 p.m. Monday, Oct. 17 in 117 Ives Hall. Freund, professor emeritus of philosophy at Pennsylvania State University and author of several books and translations, will speak on "The Real and the Ideal Society" as a guest of the Cornell TM Club. The lecture is open to the public. Freund is a practitioner of the Transcendental Meditation or TM technique and was a visiting professor at Maharishi International University in Fairfield, Iowa, for one year.

Agriculture Secretary to Speak

U.S. Secretary of Agriculture Robert Bergland will speak at a town meeting at 8:30 p.m. Oct. 26 at Boynton Junior High School in Ithaca. Buses from campus will be made available for students wishing to attend. Registration for the buses will be held Oct. 19-24 at the Willard Straight desk and Mann Library reserve desk. The buses will leave at 7:45 p.m., Oct. 26, from the North Campus Union, Bailey Hall Circle and Baker Flaggpole.

Special Seminars

Agriculture and Life Sciences
JUGATAE: "Insect Aging," Roger Young, 4 p.m., Monday, Oct. 17, Caldwell 100.
MICROBIOLOGY: "Magnetic Bacteria," Richard Blakemore, University of New Hampshire, 4:30 p.m., Thursday, Oct. 13, Stocking 124.
PLANT PHYSIOLOGY: "Aging and Inhibitional Stress in Soybean Seeds," David Parrish, Virginia Polytechnic Institute, 11:15 a.m., Friday, Oct. 14, Plant Science 404.
POULTRY BIOLOGY: "Iron Requirements of Breeding Hens," Timothy A. Morck, 4:15 p.m., Thursday, Oct. 13, Rice 201.
VEGETABLE CROPS: "An Alternative Concept in Calcium-Related Disorders of Horticultural Crops," Graham Collier, National Vegetable Research Station, Wellsbourne, England, 4:30 p.m., Thursday, Oct. 13, Plant Science 404.

Career Center Calendar

Oct. 13 — University of Rochester School of Management recruiting at Career Center.
Oct. 14 — Duke University MBA Program interviewing at Career Center.
Boston University School of Public Management interviewing at Career Center.
Deadline for Fulbright-Hays grant applications.
Oct. 17 — Exploring Careers in the Import-Export Business. 12:15 p.m. Living room, Sage Graduate Center. Bring a brown bag lunch.
Oct. 18 — Amos Tuck School of Business Administration (Dartmouth) interviewing at Career Center. Make an appointment.
Resume Critique. 3-4 p.m. Career Center. Sign up in advance.
Vermont Law School interviewing at Career Center. Make an appointment ahead of time.
Oct. 19 — Cecil Washington, director of Crossroads Africa, and two Cornellians who went to Africa last summer will speak about Crossroads. 3:30-4:30 p.m. Africana Center.
"The Job Hunt." 7-10 p.m. Ives 117. Advance registration not necessary.
Oct. 20 — The director of Crossroads Africa will interview interested students. Sign up at Career Center for an appointment.

Arts and Sciences
CHEMISTRY BAKER LECTURE: "The Structures of 'Adsorbed Monolayers, Organic Monolayers,'" Gabor A. Somorjai, University of California, Berkeley, 11:15 a.m., Thursday, Oct. 13, Baker Lab. 200.
ORGANIC/INORGANIC CHEMISTRY: "N-Acylamino-1, 3-Dienes: Preparation and Use in Alkaloid Synthesis," Larry E. Overman, University of California, Irvine, 8:15 p.m., Monday, Oct. 17, Baker Lab. 119.
CHEMISTRY BAKER LECTURE: "The Surface Chemical Bond," Gabor A. Somorjai, 11:15 a.m., Tuesday, Oct. 18, Baker Lab. 200.
PSYCHOLOGY: "Erik Erikson and the Future of Depth Psychology," Paul Roazen, York University, Toronto, 4 p.m., Friday, Oct. 14, Uris Hall 202.

ANTHROPOLOGY: "Regional Systems: A New Approach to Some Traditional Anthropological Problems," G. William Skinner, Stanford University, 4:30 p.m., Thursday, Oct. 13, McGraw 165.
PHYSICS: "Tevatron, a 1000-GeV Colliding Beam Accelerator," R.R. Wilson, Fermi National Accelerator Laboratory, 4:30 p.m., Monday, Oct. 17, Clark 700.

Biological Sciences
ECOLOGY AND SYSTEMATICS: "Ecology and Genetics of Checkerspot Populations: Where We Stand Now," Paul Ehrlich, Stanford University, 4:30 p.m., Monday, Oct. 17, Langmuir Penthouse.
NEUROBIOLOGY AND BEHAVIOR: "The Selfish Behavior of Florida Scrub Jay Altruists," Glen Woolfender, University of S. Florida, 12 noon, Thursday, Oct. 13, Langmuir Penthouse.

Centers and Programs
ORNITHOLOGY: "Behavior and Ecology of the Common Loon," Judy MacIntyre, Syracuse University, 7:45 p.m., Monday, Oct. 17, Lyman K. Stuart Observatory, Sapsucker Woods.
Engineering
CHEMICAL ENGINEERING: "Emulsion with Autoclave Reactor for Catalytic Studies," J.M. Berty, Autoclave Engineers, Inc., 4:30 p.m., Monday, Oct. 17, Olin Hall A-145.
GEOLOGICAL SCIENCES: "Tertiary Tectonics of the Cape Mendocino Area, California," Edward Beutner, Franklin and Marshall College, 4:30 p.m., Thursday, Oct. 13, Thurston 205.
GEOLOGICAL SCIENCES: "The Structural Framework of

the Southern Adirondacks," James McLelland, Colgate University, 4:30 p.m., Tuesday Oct. 18, Thurston 205.
MATERIALS SCIENCE AND ENGINEERING: "Dislocation Structure of Grain Boundaries," H. Gleiter, Bell Laboratories, 4:30 p.m., Thursday, Oct. 13, Bard 140.
MECHANICAL AND AEROSPACE ENGINEERING: "Developments in Solar Collectors and Solar Cooling," Noam Lior, University of Pennsylvania, 4:30 p.m., Tuesday, Oct. 18, Grumman 282.
OPERATIONS RESEARCH: "Covering the Maximum Number of Edges with K Nodes in a Random Graph," Gerard Cornuejols, 4:30 p.m., Tuesday, Oct. 18, Upson 305.
Human Ecology
NUTRITION: "Medibiotic Relationships Between Vitamin B-12 and Folic Acid," Robert Stokstad, University of California, Berkeley, 4:30 p.m., Monday, Oct. 17, Morrison 146.
TEXTILES: "Inventions and Patents from the Viewpoint of the Research Scientist in Industry," Giuliana C. Tesoro, MIT, 4:30 p.m., Tuesday, Oct. 18, Martha Van Rensselaer 317.

Graduate Bulletin

(Sage Notes)
Information on fellowship programs for graduate students has been sent to field offices. Check with Graduate Faculty Representatives for information and suggestions.
The International Institute of Education (IIE) administered competition for grants for graduate study abroad will close Oct. 14. The grant is offered under the Mutual Educational Exchange Program (Fulbright) and by foreign governments, universities and private donors. Applicants are reminded that all transcripts, letters of recommendation, etc. should be filed with the Fulbright Program, Room 116, Sage Graduate Center by Oct. 14.
Late course registration or addition of courses is still possible upon payment of late fee (\$10). The deadline date for dropping or changing grading option is Oct. 28.
Applications for the National Science Foundation Graduate Fellowship Program are now available. Eligible undergraduate seniors or first-year graduate students should request preliminary application materials from the National Research Council, 2101 Constitution Ave., Washington, D.C. 20418. The deadline for submission is Dec. 1, 1977. Additional information may be obtained from the Fellowship Office, 116 Sage Graduate Center.

Calendar

Continued from Page 12

7:30 p.m. Fundamentals of Jewish Thought. Anabel Taylor Forum.
7:30 p.m. Hebrew Conversation: Intermediate and Advanced. Anabel Taylor 314.
7:30 p.m. Latin America Free Film Series: "Puerto Rico: Paradise Invaded." Uris Hall Auditorium.
8:15 p.m. Latin America Free Film Series: "The Terror and the Time." Uris Hall Auditorium.
8:15 p.m. *Faculty Committee on Music presents Pittsburgh Symphony Chamber Orchestra, Donald Johanos, conductor, and Lili Kraus, piano. Works of Handel, Mozart, Stravinsky, Haydn, Bailey Hall.
8:15 p.m. *Department of Theatre Arts presents "The Mysterious Murder of Maria Martan," an original play by Ph.D. candidate Peter Winn. Lincoln Hall Drummond Studio.
8:30 p.m. Explorations of the Siddur: an historical record of the development of Jewish consciousness. Anabel Taylor 314.

Friday, Oct. 21

12 noon. Catholic confessions. Anabel Taylor G-24.
12:15 p.m. Catholic Mass. All welcome. Anabel Taylor G-19.
12:15 p.m. Women's Studies Friday Seminar: "Women Mystics of Western Culture," Alice McDowell Pempel, Women's Studies Program. I&LR Conference Center 105.
1 p.m. SALAT-AL-JUMA (Friday prayer for Muslims). Anabel Taylor Edwards Room.
3-7 p.m. Happy Hour. Thirsty Bear Tavern.
4-6 p.m. Happy Hour. Noyes Center Pub.
4:15 p.m. Coalition for the Right to Eat meeting. Anabel Taylor Forum.
6 p.m. Shabbat Service (Orthodox). Young Israel House.
6 p.m. Shabbat Service (Conservative). Anabel Taylor Founders Room.
7 & 9 p.m. *Cornell Cinema presents "Bad News Bears." Statler Auditorium.
7:15 p.m. Cornell Christian Fellowship meeting for singing, prayer and fellowship. All welcome. Anabel Taylor Edwards Room.
7:30 p.m. Dungeons and Dragons meeting. Uris Hall G-94.
7:30 p.m. Pentangle II Free Film Series: "Isn't Life Wonderful" (Griffith, 1924, U.S.). Uris Hall Auditorium.

7:30 p.m. *Cornell Lightweight Football-Army. Schoellkopf.
7:30 p.m. The Agricultural Circle presents "Changes in Our Community Hospital," Herrell F. DeGraff, president of Board of Managers, Tompkins County Hospital. Riley-Robb Seminar Room.
8:15 p.m. *Department of Theatre Arts presents "The Mysterious Murder of Maria Martan," an original play by Ph.D. candidate Peter Winn. Lincoln Hall Drummond Studio.
9 p.m. "Cornell Night" with Cayuga's Waiters. Sponsored by Willard Straight Hall Program Board. Straight Memorial Room.
9 p.m. Cornell Jazz Ensemble Concert, sponsored by North Campus Union Program Board. North Campus 1st floor lounge.
9:30 p.m. *Cornell Cinema presents "Small Change." Uris Hall Auditorium.
10 p.m. Tammany Niteclub presents ESP Jazz Band. Risley College.
11:30 p.m. *Cornell Cinema presents "THX 1138." Uris Hall Auditorium.

Saturday, Oct. 22

11 a.m. Cornell Women's Volleyball-Cornell Invitational. Helen Newman.
1:30 p.m. *Cornell Freshman Football-Montclair State. Schoellkopf.
3 p.m. Cornell Women's Cross Country Cornell Invitational. Moakley Course.
4 p.m. Cornell Chinese Bible Study Group. Anabel Taylor Edwards Room.
4:30 p.m. Catholic confessions. Anabel Taylor G-24.
5:15 p.m. Catholic Mass. All welcome. Anabel Taylor G-19.
7 & 9 p.m. *Cornell Cinema presents "Small Change." Uris Hall Auditorium.
7 & 9 p.m. *Cornell presents "Bad News Bears." Statler Auditorium.
7:3 p.m. Duneons and Dragons meeting. Uris Hall G-94.
8 p.m. The Risley Free Film Series presents "Dutchman." Risley Theatre.
8:15 p.m. *Department of Theatre Arts presents "The Mysterious Murder of Maria Martan," an original play by Ph.D. candidate Peter Winn. Lincoln Hall Drummond Studio.
8:15 p.m. Department of Music presents Viola Da Gamba Recital: John Hsu, viola da gamba, and William Austin, harpsichord. Works of Telemann, C.P.E. Bach, Marais, Dolle, J.S. Bach. Barnes Hall Auditorium.

8:30 p.m. Illustrated Lecture: "Sense and Non-Sense at the Edge of Science," Carl E. Sagan, Planet Studies and Radiophysics Space Research. Sponsored by Cornell Freshman Parents Weekend. Bailey Hall. Freshman and their parents may obtain free admission tickets. These will be honored until 8:20 p.m. when the doors will be opened to general admission.
9 p.m. Freshman Follies: all kinds of entertainment. Free and open to the Cornell community. Noyes Center 1st floor lounge.
9 p.m. Israeli Cafe. Anabel Taylor One World Room.
10 p.m. Entertainment by Cayuga's Waiters, sponsored by North Campus Union Board. North Campus 1st floor lounge.
11:30 p.m. *Cornell Cinema presents "THX 1138." Uris Hall Auditorium.

Sunday, Oct. 23

4 p.m. Department of Music presents Viola Da Gamba Recital: John Hsu, viola da gamba, and William Austin, harpsichord. Works of Telemann, C.P.E. Bach, Marais, Dolle, J.S. Bach. Barnes Hall Auditorium.
8 p.m. *Cornell Cinema presents "We're Not the Jet Set." Uris Hall Auditorium.
8:15 p.m. Department of Theatre Arts presents "The Mysterious Murder of Maria Martan," an original play by Ph.D. candidate Peter Winn. Lincoln Hall Drummond Studio.
EXHIBITS
OLIN LIBRARY: "Medieval Manuscripts in Facsimile," through Nov. 4.
URIS LIBRARY: "Native American Crafts," through Oct. 31.
MARTHA VAN RENSSELAER 317: Paintings: "From January to June 1977," by Clara Straight. Oct. 17 through 28.

ANNOUNCEMENTS

INTRAMURAL SPORTS. ICE HOCKEY (MEN). The deadline on entries is at 4 p.m. Thursday, Oct. 20 in the Intramural Office, Grumman Squash Courts Building. A minimum of 12 to enter. Entrance fee is \$10 due with your roster. Please specify class A or B when entering. There must be a minimum of 8 in both A and B, otherwise, all teams play A in each division.
INTRAMURAL ICE HOCKEY (WOMEN). The deadline on entries is at 4 p.m. Thursday, Oct. 20 in the Intramural Office. A minimum of 12 to enter. Entrance fee of \$10 due with your roster.

Calendar

October 13-23

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

* Admission charged

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

Thursday, October 13

- 12 noon. Catholic confessions. Anabel Taylor G-24.
12:15 p.m. Catholic Mass. All welcome. Anabel Taylor G-19.
3:30 p.m. Plant Pathology Seminar: "Electron Microscopic Serology of Tobacco Mosaic Virus," Itaru Takebe, Institute for Plant Virus Research, Japan. Plant Science 404.
4 p.m. Open Prose and Poetry reading. Everyone welcome. Goldwin Smith Temple of Zeus.
4 p.m. Graduate Study in Management general information meeting sponsored by the Office of Admissions and Student Affairs of the Graduate School of Business and Public Administration. Malott 216.
4 p.m. Natural Resources Seminar: "Foraging, Efficiency, and Habitat Patch Use in Competing Sunfishes," Earl Werner, W.K. Kellogg Biological Station, Michigan State University. Fernow 304.
4 p.m. *Cornell Cinema and Astronomy Department present "Ascent of Man," Bronowski, Time-Life Series: parts 3 and 4. "The Grain in the Stone" and "The Hidden Structure." Uris Hall Auditorium.
4:15 p.m. Society for the Humanities Lecture: "Freud and His Followers," Paul Roazen, Social and Political Science, York University, Toronto. Goldwin Smith Kaufmann Auditorium.
4:30 p.m. Biophysics Seminar: "Plasmid DNA - histone Interactions," Henry K. Eisenberg, Polymer Department, The Weizmann Institute of Science. Clark 700.
4:30 p.m. Astronomy and Space Sciences Colloquium: "Recent 21 cm Studies of Galaxies," Morton S. Roberts, National Radio Astronomy Observatory. Space Sciences 105.
6 p.m. The Christian Science Organization invites students, faculty, staff and visitors to campus to a Readings and Testimony meeting. Anabel Taylor Founders Room.
6:30 p.m. Hebrew Conversation: Beginners. Anabel Taylor 314.
7:30 p.m. Hebrew Conversation: Intermediate and Advanced. Anabel Taylor 314.
7:30 p.m. Israeli Folk Dancing. Anabel Taylor One World Room.
7:30 p.m. Fundamentals of Jewish Thought. Anabel Taylor Forum.
8 p.m. "Thursday's" coffeehouse featuring guitar, flute, vocalists K.J. and Paul. Free and open to the Cornell community. Sponsored by Willard Straight Hall Board. Straight Memorial Room.
8 p.m. *Cornell Cinema presents "To Kill a Mockingbird." Co-sponsored by Cornell Law School. Uris Hall Auditorium.
8:15 p.m. *Department of Theatre Arts presents "A Month in the Country" by Ivan Turgenev. Straight Theatre.
8:30 p.m. Explorations of the Siddur: an historical record of the development of Jewish consciousness. Anabel Taylor 314.

Friday, October 14

- 12 noon. Catholic confessions. Anabel Taylor G-24.
12:15 p.m. Catholic Mass. All welcome. Anabel Taylor G-19.
12:15 p.m. "Action for Change" bag lunch seminar: members of the Internationalization/Mutuality in Mission Program. The evolution, purposes and processes are to be discussed. Sponsored by the Center for Religion, Ethics and Social Policy. Uris Hall 202.
12:15 p.m. Women's Studies Friday Seminar: "New Directions in Women's Art," Carolyn Straughan and Deborah Jones, Women's Studies Program. I&LR Conference Center 105.
1 p.m. SALAT-AL-JUMA (Friday prayer for Muslims). Anabel Taylor Edwards Room.
3-7 p.m. Happy Hour. North Campus Thirsty Bear Tavern.
4-6 p.m. Happy Hour. Noyes Center Pub.
4:15 p.m. Coalition for the Right to Eat meeting. Anabel Taylor Forum.
6 p.m. Shabbat Service (Orthodox). Young Israel House.
6:15 p.m. Shabbat Service (Conservative). Anabel Taylor Founders Room.
7 & 9:30 p.m. *Cornell Cinema presents "Man on the Roof." Statler Auditorium.
7:15 p.m. *Shabbat Dinner with Eugene Borowitz, "A Jewish View of Sex Ethics." Anabel Taylor One World Room.
7:15 p.m. Cornell Christian Fellowship meeting for singing, prayer and fellowship. All welcome. Anabel Taylor Founders Room.
7:30 p.m. Dungeons and Dragons meeting. Uris Hall G-94.
7:30 p.m. Jordani Society (Natural History) lecture: "Natural Selection of Coalitions," J.H. Whitlock. Public invited. Stimson G-1.
7:30 p.m. Pentangle II Free Film Series: "The Bridge" (Wicki, 1960, W. Germany); short: "Imprint" (Cardon, 1975, France). Uris Hall Auditorium.
8 p.m. Campus Crusade for Christ Lecture: "Is Jesus God?" Wes Chapman. Straight North Room.
8 p.m. Human Rights Conference panel discussion: "Institutionalization of Repression in Developing Nations." Panelists: Benedict Anderson, government and Asian studies; James Petras, Latin American studies at SUNY-Binghamton;

Thabo Rapoto, student leader from Soweto, South Africa; Lolly Lopez, Puerto Rico Solidarity Committee, N.Y. Anabel Taylor Auditorium.

8 p.m. "The Sun Dance," lecture by Ina McNeil, great granddaughter of Chief Sitting Bull. Graduate Communication Arts Center, Stewart Ave.

8:15 p.m. Student recital by Don Sloan, guitar. Works of Milan, Negri, Villa-Lobos, DeFalla, Orbon, Albeniz. Barnes Hall Auditorium.

8:15 p.m. *Department of Theatre Arts presents "A Month in the Country" by Ivan Turgenev. Straight Theatre.

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

10 p.m.-midnight. Tammany Niteclub presents Songs from Broadway, musical revue. Risley College.

11:30 p.m. *Cornell Cinema presents "Lords of Flatbush." Uris Hall Auditorium.

12 midnight. Tammany Niteclub presents Ricardo Santos: piano, guitar and vocals. Risley College.

Saturday, October 15

NATIVE AMERICAN CRAFT EXHIBITION. Demonstrations in basket weaving, silversmith, lacrosse sticks, teepees, soapstone carving by professional craftsman. Sponsored by Native American Indians at Cornell, University Unions Program Board, and the Anthropology Department. Agriculture Quad.

9:30 a.m. Shabbat Service (Conservative). Anabel Taylor Founders Room.

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

10 a.m. & 1 p.m. Human Rights Conference Workshops: "Political Prisoners in the U.S.A.," Lolly Lopez, PRSC, and Rev. White, Wilmington, Tenn., "South Korea," Sugwon Kang, exile from South Korea at SUNY-Oneonta; "Southern Africa," SALC; "Argentina, Chile, and Uruguay," Bud Kenworthy and James Petras. Anabel Taylor Auditorium.

10 a.m. - 12:30 p.m.; 2-5 p.m. *Folk Dance Workshop with Moshe Eskayo, Israeli, The Wetters, European Couple Dances. Sponsored by Cornell Folk Dance Club. Beginners welcome. Straight Memorial Room.

12 noon. Cornell Rugby Club-Boston College. Upper Alumni Field.

4 p.m. Cornell Chinese Bible Study Group. Anabel Taylor Edwards Room.

4:30 p.m. Catholic confessions. Anabel Taylor G-24.

4:30 p.m. Hillel discussion with Eugene Borowitz, "Roth, Malamud, Bellow, Wiesel, Four Views of Being Jewish." Anabel Taylor Founders Room.

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

7 & 9 p.m. *Cornell Cinema presents "Death Wish." Uris Hall Auditorium.

7 & 9:30 p.m. *Cornell Cinema presents "Man on the Roof." Statler Auditorium.

7:30 p.m. Dungeons and Dragons meeting. Uris Hall G-94.

8 p.m. Risley Free Film Series: "The Blue Angel." Risley Theatre.

8:15 p.m. *Department of Theatre Arts presents "A Month in the Country" by Ivan Turgenev. Straight Theatre.

8:30 p.m. *Cornell Folk Song Club presents De Dannan, Irish music at its best. Martha Van Rensselaer Auditorium.

9 p.m. - 1 a.m. *University Unions Program Board and Cornell Dining present Bob Wuhl, Glenn Hirsh and Joanne Peltz, two comics and a singer direct from New York City's famed nightclub "The Improvisation." Cash bar and hors d'oeuvres available. Straight Ivy Room.

10 p.m. - midnight. Tammany Niteclub presents Ricardo Santos, piano, guitar and vocals. Risley College.

11:30 p.m. *Cornell Cinema presents "Lords of Flatbush." Uris Hall Auditorium.

12 midnight. Tammany Niteclub presents Mike Jasper, guitar and vocals. Risley College.

Sunday, October 16

9:30 a.m. Episcopal Church Worship Service. Sunday school and nursery provided. Anabel Taylor Chapel.

9:30 & 11 a.m. Catholic Mass. All welcome. Coffee hour follows Mass. School and nursery provided. Anabel Taylor Auditorium.

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

10 a.m. - 1 p.m. *Folk Dance Workshop with Moshe Eskay, Israeli, The Wetters, European Couple Dances. Sponsored by Cornell Folk Dance Club. Straight Memorial Room.

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

11 a.m. Sage Chapel Convocation: Eugene Borowitz, Rabbi; Education and Jewish Religious Thought, Hebrew Union College Jewish Institute of Religion, New York.

11:15 a.m. Protestant Community Worship with Human Rights Litany. Anabel Taylor Chapel.

12:30 p.m. Human Rights Conference coffee hour and panel discussion: "The Role of the Church in the Human Rights Struggle." Anabel Taylor Founders Room.

5 p.m. Catholic Mass. All welcome. Anabel Taylor Auditorium.

6:30 p.m. Hebrew Conversation: Beginners. Anabel Taylor 314.

7:30 p.m. Ecology House Free Film Series: "Brush Creek Bounces Back" and "Water Resourcefulness." Open to Cornell community. Ecology House located off Triphammer Road.

8 p.m. *Cornell Cinema presents "Phantom India," Parts 4, 5, 6 & 7. Uris Hall Auditorium.

9 p.m. Coffeehouse with Peter Ressler. Sponsored by North Campus Union Program Committee. Free and open to the Cornell community. North Campus Union 1st floor lounge.

Monday, October 17

11:15 a.m. Pomology seminar: "The Behavior of Apple Rootstocks as Affected by Environmental factors," J. Tromp, Wilhelminadorp Research Station, Goes, The Netherlands. Plant Science 114.

12 noon. Catholic confessions. Anabel Taylor G-24.

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

4 p.m. Public lecture: "The Role of Energy in Economic Development," Kenneth E. Boulding, Economics, University of Colorado, and Andrew D. White Professor-at-Large. Uris Auditorium.

4:30 p.m. Bethe Lecture Series: "The Tevatron, a 1000 GeV Colliding Beam Accelerator," Robert Rathbun Wilson, Fermi

National Accelerator Laboratory. Clark 700.

4:30 p.m. China-Japan Program Colloquium: "China Today: a Report on a Recent Delegation Visit," G. William Skinner, Stanford University. Uris Hall G-08.

4:45 p.m. Department of Music presents Cornell Symphonic Band concert, Marice Stith, conductor. Works of Sullivan, Jenkins, Reed Musser, Tchaikovsky, Chance. Straight Memorial Room.

7:30 p.m. Cornell Transcendental Meditation Club lecture: "The Real and the Ideal Society," E. Hans Freund, Pennsylvania State University. Free and open to everyone. Ives 117.

7:30 p.m. America and World Community: "The Flow of Global Communication and Human Survival," Njoku Awa, Communication Arts. Anabel Taylor One World Room.

7:45 p.m. Ornithology Seminar. Public welcome. Stuart Observatory, 159 Sapsucker Wood Road.

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

Tuesday, October 18

12 noon. Catholic confessions. Anabel Taylor G-24.

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

12:15 p.m. Cornell Women's Caucus. Ives 118.

4:30 p.m. Food Science 600 Seminar: "Physicochemical Aspects of Starch Gelatinization," J.M.V. Blanshard, Applied Biochemistry and Nutrition, University of Nottingham, England. Stocking Hall 204.

4:30 p.m. Messenger Lecture Series: "Shakespeare: Politics, History and Poetry": "Kingship and the Actor: Richard II," David Grene, University of Chicago. Goldwin Smith Kaufmann Auditorium.

7:30 p.m. Folk Dancing for couples. Singles, beginners, all ages welcome. Plant Science 404.

7:30 p.m. Cornell Women in Communication, Inc., meeting. Open to all interested in becoming a member. For more information, call 273-1346. Cornell Communication Arts Graduate Center, 640 Stewart Avenue.

8-10 p.m. "Making Good Marriages Better." Program sponsored by EARS. North Campus Union Multipurpose Room.

8 p.m. *Cornell Cinema presents "Ali: Fear Eats the Soul." Uris Hall Auditorium.

8 p.m. Graduate Women in Science Lecture: "The Education of Women in the Professions," Mary Diederich Ott, Emerson 135.

Wednesday, Oct. 19

12 noon. Catholic confessions. Anabel Taylor G-24.

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

4-5 p.m. International Agriculture Seminar: "Resettlement as a Mechanism of Agricultural Development," Milton L. Barnett, Rural Sociology. Emerson 135.

4:30 p.m. Biophysics Seminar: "Optical Monitoring of Neuronal Activity," Lawrence Cohen, Physiology, Yale University. Clark 700.

4:30 p.m. Special University Faculty meeting. Ives 110.

4:30 p.m. Office of Computer Services Mini/Micro Seminar Series: "Comprehensive Laboratory Automation Facilities," A.A. Guido, IBM. Uris Hall G-14.

4:30 p.m. Messenger Lecture Series: "Shakespeare: Politics, History and Poetry": "Chronicle Plays: The Henriad," David Grene, University of Chicago. Goldwin Smith Kaufmann Auditorium.

7 p.m. Johnson Museum of Art Film Series: "Desistfilm," (1954); "Flesh of Morning" (1956); "The Dead" (1960); "Sincerity Reel #1" (1973).

7:30 p.m. American and World Community: "America in Relation to the Developing Nations and the Global Village," J. Congress Mbata, Africana Studies. Anabel Taylor One World room.

8 p.m. Public Lecture: "Doom or Boom: The Limits of Human Development," Kenneth E. Boulding, Economics, University of Colorado, and Andrew D. White Professor-at-Large. Ives 120.

8 p.m. Eco-Justice Forum: "Hard vs. Soft Technology: Which Future Do We Want?" A debate between Bart Conta and Peter Auer. Sponsored by the Eco-Justice Task Force. Uris Hall 202.

8 p.m. *Cornell Cinema presents "Masculine-Femine." Uris Hall Auditorium.

8 p.m. Cornell Folk Song Club Sing. Free and open to the Cornell community. Goldwin Smith Temple of Zeus.

Thursday, Oct. 20

12 noon. Catholic confessions. Anabel Taylor G-24.

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

12:15 p.m. Campus Club lecture: "Energy Conservation at Home," Leland Gallup, Human Ecology. Bring a sandwich; coffee and tea available. Parking at B lot. Veterinary Science James Law Auditorium.

4 p.m. Cornell Women's Tennis-SUC Oneonta. Helen Newman.

4 p.m. Open Prose and Poetry reading. Everyone invited. Goldwin Smith Temple of Zeus.

4 p.m. *Cornell Cinema and Astronomy Department present "Ascent of Man," Bronowski, Time-Life Series: "Music of the Spheres"; "The Starry Messenger." Uris Hall Auditorium.

4 p.m. Graduate Study in Management general information meeting sponsored by the Office of Admissions and Student Affairs of the Graduate School of Business and Public Administration. Malott 216.

4 p.m. Asian Studies seminar: "The Solitary Traveller in Modern Chinese Literature," Leo Lee, Indiana University. Uris Hall 202.

4:30 p.m. Messenger Lecture Series: "Shakespeare: Politics, History and Poetry": "Measure for Measure: The Administration of the Law and the Nature of Statecraft," David Grene. Goldwin Smith Kaufmann Auditorium.

6 p.m. The Christian Science Organization invites students, faculty, staff and visitors to campus to a Readings and Testimony meeting. Anabel Taylor Founders Room.

6:30 p.m. Hebrew Conversation: Beginners. Anabel Taylor 314.

7:30 p.m. Israeli Folk Dancing. Anabel Taylor One World Room.

Continued on Page 11