

Cornell Chronicle

Volume 13, Number 11

November 5, 1981



The Way It Was: This was Fall Creek between Triphammer Bridge and Beebe Lake during the peak of last week's flood. Take this picture and compare it with the same view today to get a better idea of the volume of water at that time.

Rhodes Tells 'State of the University'

Stresses Need for University-Industry Ties

Delivering his annual State of the University address to members of the Board of Trustees and Cornell University Council Oct. 30, President Frank Rhodes expressed deepest gratitude and thanks to both groups for their outstanding leadership and continuing support. He also thanked them for their dedication and deep commitment to the university and highlighted the university's achievements during the past year.

Rhodes placed particular emphasis this year on renewal and change particularly as they affect medical education and university-industry cooperation.

The substance of his speech, as prepared for presentation, follows: **Highlights of Year**

In reflecting on the year just passed, I am reminded of Arnold Toynbee's comment that, "Civilization is a movement...and not a condition, a voyage and not a har-

bor." That observation holds for Cornell as well; having completed an extraordinarily successful campaign last year, we have continued

to receive a remarkable level of support from our alumni and friends. It is particularly gratifying that our cash gifts of \$54.6 million

represent an increase of \$8.3 million over the previous year and, although the final figures are not yet available, Cornell will again rank

among the top five or six universities in the country in terms of private support. That is a position of strength for which we owe much to the members of the Council and the Board of Trustees.

You have already heard about our fund raising efforts on behalf of the Performing Arts Center, but I should like to express my personal thanks to the anonymous donor who is in the audience today, and whose \$1 million gift has provided the impetus for additional giving in support of this ambitious project.

We still have a long way to go, but I am confident that with the site now selected and the facility designated as a cornerstone of the Cornell-Ithaca plan to revitalize Collegetown, we shall be successful in attracting the necessary funds.

The past year has been notable for a level of faculty achievement

Continued on Page 7

Nuclear Convocation Planned

Several thousand persons are expected at Bailey Hall for "The November 11th Convocation: The Threat of Nuclear War," one of 120 such gatherings across the U.S. that day.

Speakers include Sen. Gary Hart (D-Colorado), a member of the Senate Committee on Armed Services; Carl Sagan, the David Duncan Professor of Astronomy and Space Sciences at Cornell; Rev. William Sloan Coffin; John Marshall Lee, vice admiral (ret.); Franklin A. Long, former assistant director for science and technology in the U.S.

Arms Control and Disarmament Agency; and Steven R. Meshnick, M.D., professor of medicine at the Cornell Medical College.

The Cornell convocation, which is planned from 1:30 to 4 p.m. and will resume at 8 p.m., is expected to be the largest in the Eastern United States.

Among those endorsing the Cornell convocation are two Nobel laureates, Han Bethe and Department of Chemistry Chairman Roald Hoffmann; as well as Vice Provost Peter Stein; Dean of the College of Human Ecology Jerome M. Ziegler;

Associate Dean of Human Ecology Nancy Saltford; Director of the Division of Biological Sciences Robert Barker; Director of the Ward Laboratory of Nuclear Engineering David Clark; and the membership of the Cornell branch of Tau Beta Pi, the national engineering honor society.

Additional information on the Cornell convocation, which will include movies, workshops and other events, is available from Peter Stein at 256-4118 or 256-3167 and from Mike Shapiro at 256-6500.

Performing Arts Progress Reported to Trustees

Kiplinger 'Always Knew Superman Was a Cornellian'

"An idea whose time has come" was the way Trustee Austin H. Kiplinger described a new performing arts center in his report on that project to the joint meeting of the Cornell Council and Board of Trustees last Friday at Statler Auditorium.

Kiplinger, chairman of the advisory council on the performing arts center, said university officials have been talking about the need for such a facility for almost 20 years.

Since President Frank Rhodes announced in April 1979 the university's intention to seek funds for the new building, the university has been hard at work on funding, Kiplinger said, with several "promising prospects."

He described the proposed per-

forming arts center in Collegetown as "central to the cultural life of the campus...and a long-needed cultural bridge" between Cornell and the Ithaca community.

Kiplinger reminded his predominantly alumni audience that there is "a great tradition" at Cornell in the performing arts. He named some 12 graduates who have distinguished themselves, including actor Franchot Tone '27, playwright Sidney Kingsley '28, lighting designer Jennifer Tipton '58, director Gene Saks '43 and actor Christopher Reeve '74.

"I always knew 'Superman' was a Cornellian," Kiplinger quipped when he mentioned Reeve, who has starred in that role in two films. Reeve is among seven men and

women who recently joined the advisory council on the performing arts center.

Pre-architectural planning review and the strengthening of that advisory council are the latest steps in the project.

Sasaki Associates, Inc., planning consultants, is nearing completion of pre-architectural planning, according to Lloyd Carter-Leavitt, director of public affairs for Cornell's College of Arts and Sciences.

The planning consultants are working to refine and evaluate building specifications submitted by Cornell's Department of Theatre Arts.

In addition to Reeve, the men and women who have brought their talents to the advisory council that is

reviewing plans and assisting in developing the national fund-raising campaign for the project are:

Joan Clark, board member with several performing arts groups in Metropolitan New York; Gerald Dorf '57, a lawyer and chairman of the New Jersey State Opera Co.; Jane Plunkett Greenawalt '56, director of theatre arts for the Westchester County Parks Department; Frank Lipsius '68, American arts critic of the London Financial Times; Lorraine Mandel '70, associate counsel for Paramount Pictures; and Jean Rigg, business affairs associate for CBS Cable Television.

The Board of Trustees announced in March that Collegetown is the preferred site for the new per-

forming arts facility.

The board's approval followed recommendations from several organizations, including the American City Corp. of Columbia, Md., which is engaged in a study jointly sponsored by Cornell and the City of Ithaca.

American City Corp. is now in the second phase of the study, which will include specific site development plans involving Cornell, the city and private developers.

The project area involves all of the Collegetown section of the city, with particular emphasis on new development in the section bounded generally by Cascadilla Gorge, College Avenue, Dryden Road and Eddy Street.

Theater Seminar Will be Combined Cornell and Community Venture

Theatre Cornell and the Tompkins County Arts Council will present a seminar/workshop on "Producing a Play: Trends in New Plays and Playwrights," at 8 p.m. Thursday, Nov. 5, in the Atrium on the second floor of the DeWitt Building. Admission will be \$2 per person.

Robert Moss, producing director, and Kenneth Pressman, resident playwright, of Playwrights Horizons, an off-Broadway theater, will conduct the seminar/workshop. After the workshop there will be a discussion period when the speakers will address such subjects as the National Endowment for the Arts, The New York State Council on the Arts and off-Broadway.

Moss and Pressman will be at Cornell to present a new play by Pressman, "Sand Dancing," which was commissioned by Playwrights Horizons. It will be presented in Drummond Studio Nov. 19-21 and Dec. 3-5 at 8:15 p.m. Tickets for the play are available at the Theatre Cornell Box Office, lower floor of Willard Straight Hall, open 1-6 p.m. Monday-Friday, 256-5165.

Playwrights Horizons is dedicated to the support and encouragement of new writing for the American theater, and originated such

notable plays as "Kennedy's Children," "Vanities," "Table Settings," "Gemini" and "Coming Attractions."

Under Moss' supervision, the theater renovated and moved into facilities on West 42nd Street, encouraging other groups to follow suit, creating Theatre Row, a string of successful off-Broadway theaters in the midtown Manhattan area.

Moss was one of the founding members and for seven years a board member of the Off-Off-Broadway Alliance. He was a board mem-

ber of Theatre Communications Group for four years and is on the Advisory Board of Creation, an innovative theater collaboration. He has also served on panels for both the National Endowment for the Arts and the New York State Council on the Arts.

Pressman has had a number of plays produced and received a NYSCA Award for "Rabbit Ears," a play for young audiences of which he was co-author. He was Playwright-in-Residence for the Williamstown Theater Festival.

Spanish Novelist to Talk

Camilo Jose Cela, regarded as Spain's most famous living novelist, will speak at Cornell University Monday, Nov. 9.

Cela's free public lecture, in Spanish, will be at 4:30 p.m. in Kaufmann Auditorium of Goldwin Smith Hall. His topic will be "Literature and Society."

Cela's appearance is part of the 1981-82 Festival of Ibero-American Culture at Cornell that is bringing several world renown Latin American writers here.

Student Assembly to Meet

The Student Assembly will meet at 5 p.m. today in 202 Uris Hall.

The assembly will consider two funding proposals: one for the proposed Escort Service and one for the Center for World Community.

There will be a report on the Student Trustee Forum, which was held Oct. 28, as well as reports from the Campus Planning Committee, the Priorities Committee and the Community Against Sexism.

The Escort Service was endorsed by the Student Assembly at the Oct. 1 meeting. The service, which was proposed by the Community Against Rape, will be responsible for providing a Student Safety Aide to walk with individuals who might otherwise be walking alone.

The funding proposal for the Center for World Community is for a total of \$1,000 to be paid to Cornell's Interreligious International Ministry. The monies, according to the proposal, are to be used in paying printing costs for a fund raising pamphlet, for funding solicitation to major foundations and for aiding in the search for a full-time director of the center program.

Meetings of the Student Assembly are open to all members of the Cornell community. Questions concerning the work of the Student Assembly, Employee Assembly or the University Assembly should be directed to the Office of the Assemblies, 165 Day Hall, 256-3715.

Openings for Employees On Assemblies' Committees

There are still several openings for employees on various committees of the Student Assembly and the University Assembly.

Employees who are interested in serving on one of the committees should call the Office of the Assemblies, 256-3715, or go to 165 Day Hall for an application.

Employee members are needed for the following committees of the Student Assembly: Dining Services, Residence Life and the Unions and Activities Board of Governors.

For committees of the University Assembly there are vacancies on the Board on University Health, Campus Store Board, Minority and Third World Affairs Committee, University Hearing Board and the University Review Board.

Cornell Chronicle

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Published weekly during the academic year and once each in June and August. Distributed free of charge to Cornell University faculty, students and staff by the University News Bureau. Mail subscriptions, \$13 per year. Make checks payable to Cornell Chronicle and send to Editorial Office, 110 Day Hall, Ithaca, N.Y. 14853. Telephone (607) 256-4206.

Second-Class Postage Rates paid at Ithaca, N.Y. POSTMASTER: Send address changes to the Cornell Chronicle (USPS 456-650), Cornell University, 110 Day Hall, Ithaca, N.Y. 14853.

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

Jobs

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

Administrative/Professional
User Support Staff, CP4 (Computer Services)

Research Support Specialist I, CP3 (Equine Drug Testing/NYRA Racetracks, NYC)

Clerical
Administrative Assistant, GR20 (Financial Aid Office)

Personnel Assistant, GR20 (University Personnel Services, Benefits)

Research Aide, GR20 (Neurobiology and Behavior)

Office Assistant, GR19 (Visual Services/University Relations)

Secretary, GR18 (University Relations)

Library Aide, GR18 (University Libraries-Uris)

Library Aide, GR18 (University Libraries-Serials/Olin)

Library Aide, GR18 (University Libraries-Acquisitions/Olin)

Secretary, GR18 (Chemistry)

CRT Operator, GR15 (Animal Science)(2)

Service & Maintenance
Asst. Space Coordinator, GR20 (Utilities)

Head Custodian, SO18 (Buildings & Grounds Care)

Technical
Technician, GR22 (Pharmacology)

Technician, GR20 (Biochemistry, Molecular & Cell Biology)

Technical Assistant, GR16 (Entomology, Hudson Valley Lab.)

Part-time
Administrative Aide, GR20 (HD&FS, Syracuse, NY)

Office Assistant, GR19 (Agricultural Economics)

Office Assistant, GR16 (Clinical Sciences, Vet. College)

Secretary, GR16 (COSEP)

Temporary
Temp. Office Assistant, T-2 (Arts & Sci.)

Temp. Sales Assistant, T-1 (Food Science)

Academic
Professorial (open rank) (Communication Arts, CALS)

Asst. Prof., Nutritional Biochem. (Nutritional Sci.)

Res. Assoc. IV, CA6 (Pharmacology, Vet. College)

Sr. Ext. Assoc., CA7 (4-H Prog. Leader, Coop Ext., NYC)

Res. Assoc. CA3 (Plant Pathology)

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

Summary of Actions At Trustee Meetings

This summary journal, for meetings of Cornell Trustees last week-end does not include confidential items which came before the meeting or items on which separate articles are published in this issue of Chronicle.

1. Minutes of the Board of Trustees meeting held May 30, 1981 were approved. Minutes of the Executive Committee for meetings held May 5, 30, July 14 and Oct. 29, 1981, were confirmed and ratified.

2. President Frank Rhodes reported on the state of the university.

3. An operating budget request for the statutory units for 1982-83 was approved consistent with instructions provided by SUNY.

4. A leave of absence was granted Michael Jeffrey Lea, assistant professor in the Department of Consumer Economics and Housing, College of Human Ecology, for six months with salary beginning June 30, 1981.

5. The administration was authorized to credit certain income accounts of funds participating in the long-term investment pool subject to reversal if necessary on June 30, 1982, at which time the actual earned and distributable income will be credited. The administration was further authorized to conduct such routine administrative procedures in the future without specific trustee approval.

6. The administration was authorized to advance \$1,750,000 from current funds to cover construction costs of the Biological Sciences facility to be repaid from an anticipated bequest of \$2 million which has been pledged to the project; and to designate gift funds in the amount of \$570,000 for the project.

7. The administration was authorized to allocate \$106,000 from Clark Hall Maintenance Fund No. 3 to support life safety and maintenance needs in Clark Hall.

8. A recommendation of the Buildings and Properties Committee was approved designating the West end of the Ag Quad as the site for construction of the proposed Academic I facility for the College of Agriculture and Life Sciences.

9. The schematic design for the Geological Sciences Facility was approved and the administration was authorized to proceed with the design development phase of the project.

10. The responsibility for authorizing and issuing special permits for the possession and/or use of firearms on university property in isolated instances was transferred from the University Controller as authorized in September 1979, to the Director of the Department of Public Safety, or his designee.

11. The 1986 joint meeting of the Board of Trustees with the Cornell University Council was set for Friday and Saturday, Oct. 17 and 18.

12. The following new members of the Board of Trustees were introduced: Lilyan H. Affinito, B.S. Hotel '53 and James D. Stocker, A.B. '51 (Alumni Trustees), Charles F. Knight, BME '58, MBA '59 and Carol Clark Tatkon, A.B. '59 (Members at Large), Howard E. Evans, B.S. '44, Ph.D. '50 (Faculty Trustees), Richard A. Church, B.S. '64 (New York State Grange Trustee), Ronald B. Parks (Employee Trustee), Walter Hlawitschka, I&LR '82 and Stephen

H. Lockhart, Medical College '83 (Student Trustees), and Lillian Roberts (Ex Officio Trustee).

13. Stephen N. Nesterak was elected to fill the unexpired term through June 30, 1983 vacated by the resignation of Gregory G. King. Nesterak is a junior in the College of Engineering.

14. A memorial resolution for Trustee Emeritus and Presidential Councillor John S. Knight was adopted.

15. A memorial resolution for Presidential Councillor Stoddard Stevens was adopted.

16. A policy was adopted whereby professorships, deanships, directorships or other positions may be established with a pledge of annual support equivalent to the income earned on an endowed fund which supports a professorship, deanship or directorship in the university's long-term investment pool.

17. Reports were received by the Executive Committee and the full Board of Trustees as follows:

A report on the establishment of 15 new funds for the endowed colleges at Ithaca and the Medical College and the statutory colleges.

A report of the Buildings and Properties Committee.

A report of the annual review of the trusteeship of Morgan Guarantee Trust for the university's defined benefit pension plan for endowed employees.

A report on the activities of the Cornell University Council by Eli Manchester Jr., chairman of the Cornell University Council and James D. Stocker, past chairman of the Council.

A report by Michael Slive, director of Physical Education and Athletics on activities in the program of physical education and athletics.

A report on fund raising activities by Robert A. Cowie, chairman of the Development Advisory Committee.

University Provost, W. Keith Kennedy, presented annual reports from the respective college advisory councils.

A report on enrollment trends was presented by Vice Provost Larry Palmer.

The annual report on the status of sponsored research at Cornell was presented by Vice President for Research, W. Donald Cooke.

The annual report of the chief investment officer was presented by Vice President, Treasurer and Chief Investment Officer Robert T. Horn.

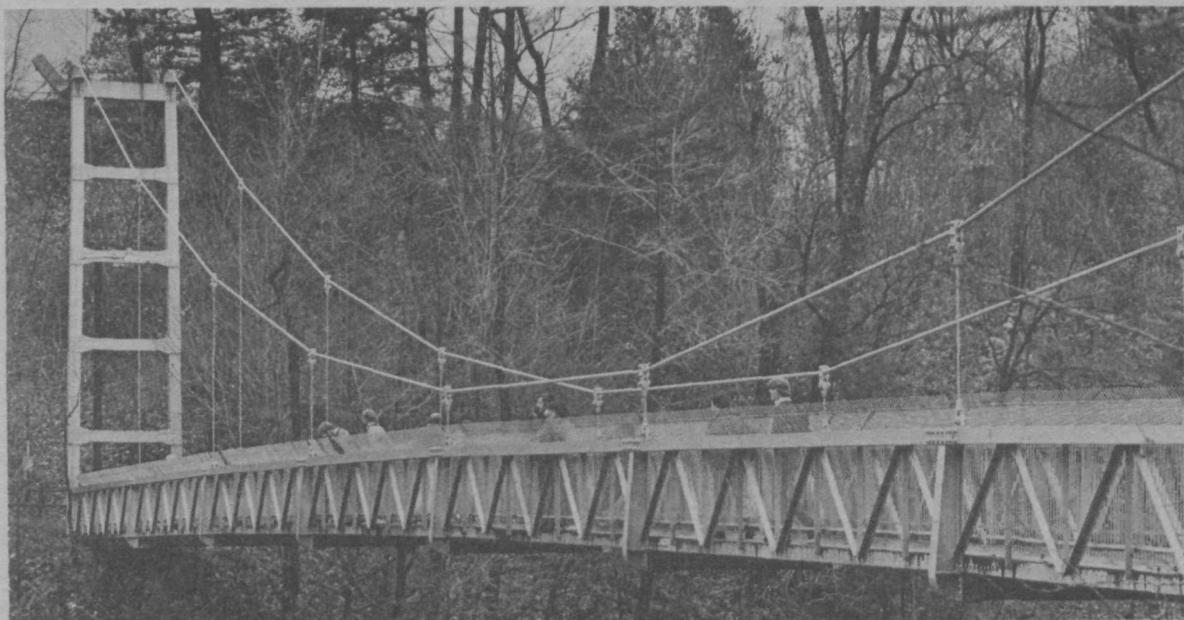
The report of the audit committee with respect to the university's audited financial statement for 1980-81 was presented by Audit Committee Chairman C.K. Poe Fratt.

Reports on the Cornell Fund and the Tower Club were presented by Trustees Patricia Carry Stewart and Harvey E. Sampson.

A report on gifts received in 1980-81 and on gifts received in the current year to date were presented by Vice President for Public Affairs Richard M. Ramin.

A report on the activities of Cornell students in Washington, D.C. programs was presented by Vice Provost Larry Palmer and Professor Walter F. LaFeber.

A report on revenue and expenditure projections for the endowed colleges at Ithaca for fiscal 1981-82 was presented by Senior Vice President William G. Herbster.



During last week's flood, pedestrians on the Suspension Bridge take time out to watch the angry waters of Fall Creek below.

Trustee Roundup

Geothermal Well Proposed

The Board of Trustees has authorized the university administration to consider participation in a geothermal well drilling study for the New York State Agricultural Experiment Station at Geneva.

Geothermal energy is useful energy that can be extracted from naturally occurring steam or hot water in the earth. Cornell and the State University of New York may request a \$30,000 appropriation from the New York State Energy Research and Development Authority (ERDA) for a study to determine the feasibility of using geothermal energy — if any — to heat buildings at the Cornell-run experiment station.

The Cornell trustees' action, taken at a weekend meeting in Ithaca, authorizes the university to enter an agreement with ERDA and the State University — subject to the availability of state appropriations — to permit ERDA to drill a 4,000- to 5,000-foot geothermal well.

Cornell's administration will await a recommendation from university geologists before deciding whether or not to participate in the study.

Although the experiment station is controlled and managed by Cornell University, it does not own the land and has no authority over mineral rights, which are administered for the state by the State University. ERDA proposes to drill the well and prepare a technical report on the results at no cost to the State or Cornell. The Board of

Trustees of SUNY has already approved the study.

The annual energy bill of the experiment station now approaches \$1 million out of a total annual budget of about \$8 million. Much of the energy is used to maintain some 50,000 square feet of greenhouse space, and station administrators are interested in using hot brine in heat exchanger units to supplement present sources of energy.

The experiment station is considered a prime site for the geothermal experiment because preliminary studies indicate the general area may be above a source of water hot enough to provide economical heat.

Drilling and development of the potential geothermal energy source are estimated to cost about \$600,000. If results of the feasibility study are positive, some \$400,000 in federal funding and \$200,000 in state funding may be requested to continue the project.

Hubbard Ecosystem Purchase Approved

A property purchase authorized this weekend by the Board of Trustees will enable the Hubbard Brook Ecosystem Study in New Hampshire to increase dormitory and laboratory space.

Meeting in Ithaca, the Cornell trustees approved the purchase, together with Yale University, of 1.8 acres and a house in North Woodstock, N.H. The property on Mirror

Lake is within a half mile of the forested area where Cornell Professor of Ecology and Systematics Gene E. Likens and Yale Professor of Forest Ecology F. Herbert Bormann conducted pioneering research on the effects of acid rain. Researchers from Cornell and Yale have been using rented space for housing and laboratory work.

Cornell is requesting some \$214,000 from the National Science Foundation to convert the house to dormitory space and to construct a laboratory on the site.

Renovation Project Will Honor Tjaden

The Board of Trustees has approved the establishment of a memorial room to honor Olive Tjaden Van Sickle.

Meeting this weekend in Ithaca, the trustees authorized renovation of Room 118 in Tjaden Hall to be designated as the Olive F. Tjaden Memorial Room. Mrs. Van Sickle is a 1925 graduate of Cornell who designed more than 2,000 buildings in the Northeast and in Florida during her career as an architect.

Formerly known as Franklin Hall, the Department of Art building was renamed in 1980. The room will be used to display examples of Tjaden works and memorabilia, other works of art, and as a reception room for special events.

Ecotoxicology Workshop Opens

More than 60 ecologists and other scientists concerned with the short- and long-term effects of toxic substances on the environment are gathered in Ithaca this week for the first Ecotoxicology Workshop, sponsored by the Cornell University Ecosystems Research Center.

Representing institutions, industries and government agencies throughout the U.S., workshop participants began their meetings Monday at the Sheraton Inn Conference Center and will continue through Thursday. Topics for the workshop,

which will produce state-of-art reports and research recommendations, include toxicant and toxicological considerations, distribution, populations, microcosms and mesocosms, and ecosystems and communities.

Among the participants are soil biologists, limnologists, forest ecologists, zoologists, plant biochemists and physiologists, entomologists, statisticians, civil and environmental engineers, oceanographers, and environmental safety specialists.

The workshop is the first major conference sponsored by the Ecosystems Research Center since its founding at Cornell one year ago. One of three new exploratory research centers established by the U.S. Environmental Protection Agency, the ERC is a collaboration of ecologists and other scientists from the Northeast U.S. and Canada who are seeking to apply knowledge of the mechanisms that operate in ecosystems to examine and predict the effects of unnatural stresses.

Calendar

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

*-Admission charged.

Announcements

Writing Workshop Walk-In Service is open Mon. through Thurs., 3:30-6 p.m. and 7:30-10 p.m.; Sun., 3-8 p.m.; Service is closed Fri. and Sat. You need no appointment, just drop by during our hours. Phone 256-6349.

Weight Station

Weight Reduction Classes are held every Thurs., 12 noon-1 p.m. at the Block Building in Barton Hall. Everyone is welcome. If you have questions, call 277-3418 or 257-0853.

Human Ecology Students

Course Enrollment (preregistration) for Spring Term ends Fri., Nov. 13. Memos with information about Course Enrollment can be found on the top of the Human Ecology undergrad mail files in the foyer of MVR. Packets of material will be available in N101 MVR.

Energy Conservation Alternatives Display
Winter is coming and so are the higher utility and energy bills. Find out ways to save by consulting with representatives from the following agencies: Community Self-Reliance Center, Department of Transportation Services, Economic Opportunity Corporation, Eco-Justice Project, Ithaca Neighborhood Housing Services, New York State Electric and Gas and others. Display will be held in Willard Straight Memorial Room on Thurs., Nov. 5, 10:30 a.m.-2:30 p.m. Call 256-5373 for further information. Sponsored by the Off-Campus Housing Office and Community Energy Network.

Legal Advice or Representation
The Office of the Judicial Advisor provides free legal assistance to students, faculty and staff accused of violating any of the university rules and regulations, i.e., the Campus Code of Conduct, the Statement of Student Rights and the Code of Academic Integrity. All consultations are kept strictly confidential. Call 256-6492 for an appointment or drop by B-12 Ives Hall.

Weekend Retreat
*Cayuga Nature Center. Focusing on "Judaism Today, World Jewry, Zionism." Featuring guest speakers, seminars, professional Israeli entertainment, bonfire, Israeli dancing and more. Sponsored by Hillel of Cornell, Ithaca College, Binghamton, Syracuse. Retreat will be held from 4 p.m. on Friday, Nov. 13 through 1 p.m., Sunday Nov. 15. Call Hillel Office 256-4227.

Bloodmobile
American Red Cross and Alpha Phi Alpha Fraternity, Inc., Alpha Chapter Bloodmobile in the Straight Memorial Room on Thurs., Nov. 12 from 10 a.m.-3:45 p.m. Signups for blood drive will be on Nov. 9-11 in Willard Straight Lobby.

Caribbean Festival
The Third World Students Programming Board will be sponsoring a Caribbean Festival, Nov. 20 and 21. The festivities will include a lecture by Selwyn Cudjoe on Caribbean culture, politics and its future at 3 p.m. on Friday, and a party at 9 p.m. on Saturday with entertainment by Le Club Haitien, La Asociacion Latina and the West Indian Student's Association. Tickets, \$2 in advance, \$3 at the door, are on sale at the Third World Students Programming Board office, second floor, Willard Straight Hall. Full details of the festival will appear in next week's Chronicle

Colloquia

Friday

Nov. 6, 9 a.m. A.D. White House Guerlac Room. The Society for the Humanities, The Department of Philosophy and the University Lectures Committee of Cornell present a Colloquium on the Philosophy of Immanuel Kant commemorating the Bicentennial of the publication of the "Critique of Pure Reason." "The Phenomenalisms of Berkeley and Kant," Margaret Wilson, Princeton University, Commentator: Elizabeth Potter, Hamilton College.

Nov. 6, 11 a.m. A.D. White House Guerlac Room. "Kant on Free Will and Determinism," Allen Wood, Cornell. Commentator: Jonathan Bennett, Syracuse University.

Nov. 6, 2 p.m. A.D. White House Guerlac Room. "Kant on Self-Knowledge," Patricia Kitcher, University of Vermont, Commentator, Sydney Shoemaker, Cornell University.

Nov. 6, 4:15 p.m. Goldwin Smith Hollis Cornell Auditorium. University Lecture: "What We Have Learned From Kant," Lewis White Beck, University of Rochester.

Saturday

Nov. 7, 9 a.m. A.D. White House Guerlac Room. "Kant's Philosophy of Science," Philip Kitcher, University of Vermont. Commentator: Charles Parsons, Columbia University.

Nov. 7, 11 a.m. A.D. White House Guerlac Room. "Kant and Green on the Good Will," Terence Irwin, Cornell University. Commentator: Ralf Meerbote, University of Rochester.

Monday

Nov. 9, 4 p.m. McGraw 165. Anthropology: Peter Argentine, former Anthropology Major, will speak before a showing of the Odyssey film: "Margaret Mead: Taking Note."

Thursday

Nov. 12, 4:30 p.m. Clark 700. Joint Physics/Astronomy and Space Sciences: "Aspects of Stellar Explosions," W.D. Arnett, University of Chicago.

Friday

Nov. 13, 3:30 p.m. Malott 251. Graduate School of Business and Public Administration's Public Affairs Colloquium: "Renaissance II and the Revitalizing of Center Pittsburgh," John P. Robin, Chairman, Pittsburgh Urban Redevelopment Authority.

Dance

Every Thurs., 8 p.m. Anabel Taylor One World Room. Israeli Folk Dancing.

Exhibits

Three exhibits will open today at the Herbert F. Johnson Museum of Art: "The Metropolitan Container of Art: Splendors of the Sohtes," "Seventeenth Century Italian Prints from the Sopher Collection" and "Prints for Purchase." "The Metropolitan Container of Art: Splendors of the Sohtes" will be on view through Dec. 13. The exhibition projects the viewer into the future and is described as "a collection of art works and artifacts from the ancient SoHo civilization, which flourished and disintegrated in the span of a few short years during the latter half of the 20th century."

"Splendors of the Sohtes" is housed in The Metropolitan Container of Art, the world's only art museum in the form of a rubbish container. The recent "unearthing" of the remnants of the Sohte culture was done by Evangeline Tabasco, artist and archeologist.

"Seventeenth Century Italian Prints from the Sopher Collection" will be on view through Dec. 20. The exhibition of 100 works is drawn from the collection assembled by the late Marcus S. Sopher, an eminent California print scholar. It provides an overview of the regional diversity, originality and spontaneity of Italian printmakers during the 17th century.

Prints by major Italian masters Barocci, della Bella, Caotiglione and Rosa and by lesser-known artists Can-

tarini and Biscaino will be among those on view.

Accompanying the exhibition will be a selection of 17th century Italian drawings from the Johnson Museum's permanent collection.

"Prints for Purchase," an exhibition/public sale of graphic works, will be on display through Nov. 22. The exhibition features 172 prints from New York City galleries which were selected by Barbara Blackwell, assistant curator of prints at the museum.

Works by James A.M. Whistler, Henri de Toulouse-Lautrec, Lyonel Feininger, Francisco Goya, G.B. Piranesi and Winslow Homer will be among those included in the exhibition/sale. Prices range from approximately \$20 to \$2,200. Full payment is required at the time of purchase.

Museum hours are 10 a.m.-5 p.m. Tuesday through Sunday.

Olin Library "Ex Libris": book plates designed for Cornellians and others, from elaborate engravings to simple modern designs. Through December.

Herbert F. Johnson Museum "The Artisan Community in China": Forty Gouaches depicting the interiors of Chinese shops in 19th century Canton.; through Nov. 29; "Zarina"; handmade paper constructions by a Cornell University visiting artist, through Nov. 29; "Lessons in Print Collecting" through Nov. 1. "Schemes: A Decade of Installation Drawings" starts Nov. 10. "Seventeenth Century Italian Prints from the Sopher Collection" from Nov. 4; "Prints for Purchase" a sale of prints chosen by Barbara Blackwell, assistant curator of prints; Nov. 4. "Sam Wiener: Metropolitan Container of Art" from Nov. 4. Museum hours: 10 a.m.-5 p.m., Tues. through Sun.

Films

Thursday

Nov. 5, 8 p.m. *Uris Hall Auditorium. "Badlands" (1975), directed by Terrence Malick, with Martin Sheen, Sissy Spacek, Warren Oates. Co-Sponsored by Psychology Department.

Friday

Nov. 6, 9:45 p.m. *Uris Hall Auditorium. "Melvin and Howard" (1980), directed by Jonathan Demme, with Jason Robards, Paul LeMat, Mary Steenburgen.

Friday & Saturday

Nov. 6 & 7, 12 midnight *Uris Hall Auditorium. "Easy Rider" (1969), directed by Dennis Hopper, with Peter Fonda, Dennis Hopper, Jack Nicholson.

Saturday

Nov. 7, 7:30 & 9:45 p.m. *Uris Hall Auditorium. "Melvin and Howard."

Sunday

Nov. 8, 2 p.m. *Uris Hall Auditorium. Superfilmshow: Film as Art for Kids. 16 short films made by various directors. Co-sponsored by Johnson Museum and Ithaca Youth Bureau.

Nov. 8, 8 p.m. *Uris Hall Auditorium. "Passing Fancy" (1933), directed by Ozu, with Sakamoto Takeshi, Tokkankozo, Ohinata Den.

Monday

Nov. 9, 9 p.m. *Uris Hall Auditorium. "Miracle in Milan" (1950), directed by Vittorio de Sica, with Francesco Golisano, Brunella Bovo, Emma Gramatica; "In the Street", directed by James Agee. Film Club members only.

Tuesday

Nov. 10, 4 p.m. Uris Library L-04. "Dance and Music of Burmese National Theatre." Video tape; Burmese dancers perform traditional "Nat (spirit) Dances" as well as dances based on the "Ramayana."

Nov. 10, 8 p.m. *Uris Hall Auditorium. "Tom Jones" (1963), directed by Tony Richardson, with Albert Finney, Susanah York, Hugh Griffith.

Wednesday

Nov. 11, 8 p.m. *Uris Hall Auditorium. "The Gay Divorcee" (1934), directed by Mark Sandrich, with Fred Astaire, Ginger Rogers, Edward Everett Horton, Eric Blore.

Thursday

Nov. 12, 8 p.m. Uris Hall Auditorium. "Grenada: Nobody's Backyard" (1980). Grenada. This film presents an overview

of the methods by which the CIA attempts to destabilize governments deemed contrary to the interests of the U.S.

Friday

Nov. 13, 9:45 p.m. *Uris Hall Auditorium. "Breaker Morant" (1979), directed by Bruce Beresford, with Edward Woodward, Jack Thompson, John Waters.

Friday & Saturday

Nov. 13 & 14, 12 midnight *Uris Hall Auditorium. "Grateful Dead at Radio City" (1980), with Grateful Dead, Al Franklin, Davis, Emcees.

Saturday

Nov. 14, 7:30 & 9:45 p.m. *Uris Hall Auditorium. "Breaker Morant."

Sunday

Nov. 15, 2 p.m. *Uris Hall Auditorium. "The Secret Garden" (1949), directed by Fred M. Wilcox, with Margaret O'Brien, Herbert Marshall, Dean Stockwell. Co-sponsored by the Ithaca Youth Bureau.

Nov. 15, 8 p.m. *Uris Hall Auditorium. "Tokyo Story" (1953), directed by Ozu, with Ryu Chishu, Higashiyama Chieko, Yamamura S.

Lectures

Thursday

Nov. 5, 12:20 p.m. 102 West Avenue. Southeast Asia Thursday Luncheon Seminar: "Permanent Revolutions: Cyclical and Structural Change in the Philippine Municipality," Dr. David L. Szantop, Social Science Research Council. Bring your lunch; coffee, tea and cookies provided.

Monday

Nov. 9, 4 p.m. Goldwin Smith 156. "Jewish and Islamic Philosophy: A Common Ground," Professor Alfred Ivy, Professor of Near Eastern and Judaic Studies, Brandeis University. Sponsored by Department of Near Eastern Studies.

Nov. 9, 4:30 p.m. Goldwin Smith Kaufmann Auditorium. "Literature and Society," (in Spanish) Camilo Jose Cela, Spanish novelist. Sponsored by the Department of Romance Studies and the Council for Creative and Performing Arts.

Nov. 9, 4:30 p.m. Goldwin Smith Hollis Cornell Auditorium. Women's Studies Program: "Gender and the History of Science: The Racial Analogy," Nancy Stephan, Yale University. Part of the Symposium on Nature, Culture and Gender. Co-sponsored with the Western Societies Program, the Latin American Studies Program, and the Program on Science, Technology, and Society. Followed by a seminar discussion on Tues., Nov. 10, 12:15 p.m. in 214 Ives Hall.

Tuesday

Nov. 10, 4:30 p.m. Goldwin Smith Hollis Cornell Auditorium. "Bible Translations," John A. Emerton, F.B.A., Regius Professor of Hebrew, University of Cambridge, England; Fellow of St. John's College.

Wednesday

Nov. 11, 7:30 p.m. Anabel Taylor One World Room. America and World Community: an interdisciplinary course; "Alternative Security Systems and World Community," Dr. Donald Keys, President of Planetary Citizens.

Thursday

Nov. 12, 4 p.m. 177 Goldwin Smith: "Chernyshevsky: Myth and Reality," (in English). Irina Paperno, Stanford University. Sponsored by the Department of Russian Literature.

Nov. 12, 4:30 p.m. Goldwin Smith Hollis Cornell Auditorium. "The Ode on a Grecian Urn: Structure and Closure," Helen Vender, Professor of English, Boston University. Sponsored by Department of English.

Nov. 12, 4:30 p.m. A.D. White House Guerlac Room. "Societal Models as Substitute Realities in Literature," Professor Virgil Nemoianu, Chairman, Comparative Literature, Catholic University of America, Washington, D.C. Sponsored jointly by the Department of Comparative Literature and the Society for the Humanities.

Nov. 12, 7:30 p.m. Stimson G-1. Jordani: Natural History Society. "Limnology in the Antarctic," Dr. Gene E. Likens, Ecology and Systematics.

November 1981

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22	23	24	25	26	27	28
29	30					

Meetings

Every Tues., 9 p.m. Hug Ivri-Hebrew Club meeting. Speakers of Hebrew at all levels welcome. For more information, call Michael at 277-2168.

Every Thurs., 7:15 p.m. Willard Straight 207. Gay PAC business meeting followed by 8 p.m. discussion. Different topic each week.

Every Sun., 7:30 p.m. Anabel Taylor 314. The Anthroposophy Study Group will take up the topic "The Spiritual Science of Rudolf Steiner." Everyone welcome. For more information call 277-1459 or see the secretary in Anabel Taylor Hall.

Thursday

Nov. 5, 5 p.m. Uris Hall 202. Student Assembly.

Wednesday

Nov. 11, 4:30 p.m. Ives 110. F.C.R. meeting.

Music

Two Concerts Scheduled

Two concerts by Cornell University undergraduate and graduate students will take place on the campus this weekend, Nov. 6-8.

A song recital by voice students will be presented at 8:15 p.m. Friday, Nov. 6, in Barnes Hall. Performing in the free public program are soprano Lucy Behr '82 (Civ. E.) and mezzo-soprano Theodora Hanslowe, both pupils of Professor Barbara Troxell, and accompanist Nannette Hanslowe. As soloists, they will sing groups of songs by Schubert, Mozart, Richard Strauss, Debussy and Barber. They will also perform duets by Robert Schumann and Mendelssohn.

Organist Stephen May will give a graduate lecture-recital of contemporary British and American organ music at 4 p.m. Sunday, Nov. 8, in Sage Chapel. May, who is the accompanist for the Sage Chapel Choir and doctoral candidate in music, will include in his free public program Fugue, Chorale and Epilogue by Herbert Howells, Essay by Nicholas Maw, Paean by Kenneth Leighton, Fight On, My Soul by Gardner Read, Trio on "Alles was du bist" by William Nalle, one movement from Symphony in G by Leo Sowerby and May's own Von Himmel Hoch.

Saturday

Nov. 7, 8:15 p.m. *Sage Chapel. Cornell University Glee Club Homecoming Concert.

Religion

Every Thurs., 7:30 p.m. Anabel Taylor Founders Room. Christian Science Organization Testimony Meeting.

Thursday

Nov. 5, 7 p.m. Anabel Taylor Auditorium. North African Jewry Day of Jewish Awareness Week. Movie: "Salach."

Nov. 5, 10 p.m. Noyes Center 3rd floor lounge. Dick Purnell speaking on "Why Couples Break-up." Sponsored by Cornell Campus Crusade for Christ.

Friday

Nov. 6 Anabel Taylor Founders Room. American Jewry Day Exhibit.

Nov. 6, 5:30 p.m. Anabel Taylor Founders Room. Shabbat Service (Conservative).

Nov. 6, 5:30 p.m. Anabel Taylor Chapel. Shabbat Service (Reform).

Nov. 6, 5:30 p.m. Anabel Taylor Edwards Room. Shabbat Service (Orthodox).

Nov. 6 Anabel Taylor One World Room. Shabbat Dinner following services. Professor Richard Polenberg, guest speaker.

Nov. 6, 8 p.m. North Campus Union 2nd floor lounge. Cornell Campus Crusade for Christ: "Sex and the Search for Intimacy." Dick Purnell.

Saturday

Nov. 7, 9:15 a.m. Anabel Taylor Edwards Room. Shabbat Service (Orthodox).

Nov. 7, 10 a.m. Anabel Taylor Founders



Endo Suando, center, dancer and musician from West Java, Indonesia, and artist in residence at Cornell this academic year, plays drums with Cornell's student Gamelan Ensemble, in preparation for a drum and dance lecture-demonstration, open free to the public, at 8:15 p.m. Friday, Nov. 13 in Barnes Hall. The event will include both the drums and masked dances of Indonesian "Topeng," and Japanese "No." The Japanese "No" portion of the performance will be given by Monica Bethe, visiting associate professor of Japanese theater. She is at far left, also practicing with the Gamelan Ensemble. The concert is being sponsored by the Southeast Asia Program, Music Department and Cornell Council of the Creative and Performing Arts.

Room. Shabbat Service (Conservative).
Nov. 7, 4 p.m. Anabel Taylor Hillel Office. Torah Chanting Class.

Sunday

Nov. 8, 11 a.m. Sage Chapel. Inter-religious Service. David Drinkwater, Dean of Students, Cornell.

Nov. 8 1 p.m. Anabel Taylor 314. Hebrew classes.

Sunday

Nov. 15, 11 a.m. Sage Chapel. Inter-religious Service. George Miller, Psychologist, Ithaca; Nina Miller, Director, Suicide Prevention and Crisis Service of Tompkins County, Ithaca.

Every Fri., 6:30 p.m. Anabel Taylor Founders Room. Shabbat Conservative Service.

Every Fri., 6:30 p.m. Anabel Taylor Chapel. Shabbat Reform Service.

Every Fri., 7:30 p.m. 106 Eastern Heights Drive. Baha'i fireside discussion. For details call 273-4240.

Every Fri., 1 p.m. Anabel Taylor Edwards Room. JUMA Prayers organized by the Muslim Educational and Cultural Assoc. of Cornell.

Every Sat., 9 a.m. Anabel Taylor Edwards Room. Shabbat Orthodox Service.

Every Sat., 10 a.m. Anabel Taylor Founders Room. Shabbat Conservative Service.

Every Sat., 5:15 p.m. Anabel Taylor Auditorium. Catholic Eucharist.

Every Sun., 9:30 a.m. Anabel Taylor Chapel. Episcopal Eucharist Worship Service. Nursery and Church School provided. Faculty and students welcome. Coffee hour after.

Every Sun., 9:30 & 11 a.m. Anabel Taylor Auditorium. Catholic Eucharist. Church school and nursery provided.

Every Sun., 9:45 a.m. Anabel Taylor Edwards Room. Ithaca Society of Friends (Quakers) adult discussion followed by meeting for worship at 11 a.m.

Every Sun., 10 a.m. Straight North Room. Korean Church at Cornell.

Every Sun., 11:15 a.m. Anabel Taylor Chapel. Protestant Church at Cornell. Coffee and conversation after.

Every Sun., 5 p.m. Anabel Taylor Auditorium. Catholic Eucharist.

Seminars

Antibody Club/Veterinary Microbiology/Genetics and Development: "Parallel Direction of Genomic Evolution in Mammals: Molecular Genetics of the Felidae," Stephen O'Brien, National Institutes of Health, 4:30 p.m. Thursday, Nov. 5, Boyce Thompson Institute Auditorium.

Biophysics: "Biophysical Measurements of Interactions Between Surface and Interior of Animal Cells," Elliott Elson, Washington University, 4:30 p.m. Wednesday, Nov. 11, 700 Clark Hall.

Boyce Thompson Institute: "Disturbance and Recovery in a Forested Ecosystem," F. Herbert Bormann, Yale University, 3:15 p.m. Monday, Nov. 9, Boyce Thompson Institute Auditorium.

Campus Life: Discussion with members of the Board of Trustees, Gary Guzy, Karen Brazell, Ezra Cornell, George Peter, 9 a.m. Thursday, Nov. 5, Elmhurst Room, Willard Straight Hall.

CAPE: "Collective Protection of Inconspicuous Consumption," Robert Frank, 4 p.m. Thursday, Nov. 5, 498 Uris Hall.

Center for Applied Mathematics: "Bifurcation from the Continuous Spectrum," Tassilo Kupper, Mathematisches Institut, visiting Math. Research Center, 4 p.m. Friday, Nov. 6, 165 Olin Hall.

Ecology & Systematics: "Exchange of Energy and Mass Between Animals and Their Physical Environments," James R. Spotila, State University College, Buffalo, 9:05 a.m. Wednesday, Nov. 11, 163 Morrison Hall.

Ecology & Systematics: "Mathematical Models of Primate Infanticide," Glenn Hausfater, 4:30 p.m. Wednesday, Nov. 11, Langmuir Penthouse.

Floriculture and Ornamental Horticulture: "The Effect of Soil Heating and a Nitrification Inhibitor on Ammonium Toxicity to Poinsettia," Doug Cox, 12:15 p.m. Thursday, Nov. 5, L.H. MacDaniels Room, 37 Plant Science.

Food Science: "Mutagenic Materials in Foods," John Babish, 4:30 p.m. Tuesday, Nov. 10, 204 Stocking Hall.

General Chemistry: "Photoelectrochemistry & Heterogeneous

Photocatalysis at Semiconductors," Allen Bard, University of Texas, 4:40 p.m. Thursday, Nov. 5, 119 Baker Lab.

JUGATAE: "Biological Control of the Alfalfa Weevil in New York State," George G. Gyrisco, 4 p.m. Monday, Nov. 9, 100 Caldwell Hall.

Materials Science and Engineering: "Effect of Dynamic Mechanical Deformation on the Hydrogen Permeation and Embrittlement of Steels," B.J. Berkowitz, Exxon Research, 4:30 p.m. Thursday, Nov. 5, 140 Bard Hall.

Mechanical and Aerospace Engineering: "Performance Characteristics of a Cycloturbine Under Non-steady-state Operating Conditions," V.R. Nattuvetty, 4:30 p.m. Tuesday, Nov. 10, 282 Grumman.

Microbiology: "Immobilized Microbes," R.A. Messing, Corning Glass Works, 4:30 p.m. Thursday, Nov. 5, 124 Stocking Hall.

Microbiology: "Caulobacter crescentus: Modulation of Cellular Differentiation in Steady-State Populations," J.S. Poindexter, The Public Health Institute of the City of New York, Inc., 4:30 p.m. Thursday, Nov. 12, 124 Stocking Hall.

Neurobiology & Behavior: "Flip-Flopping Neurons and Zig-Zagging Moths: A Neural Correlate to the Female-locating Behavior of the Male Silk Moth," Robert Olberg, Union College, 12:30 p.m. Thursday, Nov. 5, Langmuir Laboratory Penthouse.

Operations Research: "Extremal Processes," Wim Vervaat, Catholic University, Nijmegen, The Netherlands, 4:30 p.m. Tuesday, Nov. 10, 305 Upson Hall.

Organic/Organometallic Chemistry: "Arene and CH Bond Activation Using Manganese Complexes," Maurice S. Brookhart, University of North Carolina, 8:15 p.m. Monday, Nov. 9, 119 Baker Lab.

Physiology: "Studies on the Interaction of Follicotropin With Membrane Bound and Solubilized Testicular Receptors," L. Reichart, Albany Medical College, 4:30 p.m. Tuesday, Nov. 10, G-3 Vet. Research Tower.

Plant Biology: "Leaf Architecture and the Evolution of Flowering Plants," Leo Hickey, Smithsonian Institute, 11:15 a.m. Friday, Nov. 6, 404 Plant Science.

Plant Pathology: "Coping with Interplot Interference," R. Paysour, and "Relative Survival Potential of Phytophthora megasperma propagules," J.P. Stack, 4:30 p.m. Tuesday, Nov. 10, 404 Plant Science Building.

Pomology: "Innovations in Training Systems for Peaches," Gary A. Couvillon, University of Georgia, 11:15 a.m. Monday, Nov. 9, 114 Plant Science Building.

Rural Sociology: "Improving Industrial Productivity and the Quality of Working Life: Can the U.S. Import the Japanese Model?" William F. Whyte, 12:15 p.m. Monday, Nov. 9, 32 Warren Hall.

Statistics: "The Vec and Vech Operators of Matrix Algebra, with Applications in Statistics," S.R. Searle, 3:15 p.m. Wednesday, Nov. 11, 105 ILR Conference Center.

Vegetable Crops: "Relay Intercropping of Vining Peas and Sweet Corn," M. Lamberts, 4:30 p.m. Thursday, Nov. 5, 404 Plant Science Building.

Western Societies Program: "Anti-Pollution Policy in France: State and Industrial Regulation," Jean Padioleau, Maison des Science de l'Homme, Paris, 12:15 p.m. Monday, Nov. 9, 488 Uris Hall.

Sports

Friday

Nov. 6, 7:30 p.m. *Schoellkopf. Men's Varsity Soccer-Yale.

Saturday

Nov. 7, 1:30 p.m. *Schoellkopf. Men's Varsity Football-Yale (Homecoming).

Friday

Nov. 13, 7:30 p.m. *Schoellkopf. Men's Varsity Soccer-Columbia.

Saturday

Nov. 14, 1:30 p.m. *Schoellkopf. Men's Varsity Football-Columbia.

Theater

Thurs. through Sat.

Nov. 5-7, 8:15 p.m. *Goldwin Smith Kaufmann Auditorium. Brendan Behan's "The Hostage." Behan turns a powder-keg situation into an off-key farce, full of bawdy music hall gags and outrageously villainous songs, with jokes that irreverently attack the hypocritical morality of the Western world.

Thurs. through Sat.

Nov. 12-14, 8:15 p.m. *Straight Theatre. Frank Wedekind's "The Awakening of Spring." Attacks the assumption that ignorance and innocence are the same thing, showing the heartbreak that can result when children are brought up in ignorance of their sexuality.

Thurs. through Sun.

Nov. 12-15, 8:15 p.m. *Risley Theatre. Risley Theatre presents Eugene O'Neill's "The Great God Brown." Tickets on sale at Straight Ticket Office and at the door.

Barton Blotter

A 19-year-old white female Cornell student reported to the Department of Public Safety early Friday afternoon that she had been raped by a black male on Fall Creek Drive north of the suspension bridge sometime between 2:30 a.m. and 2:45 a.m. She reported the attacker may have been carrying a gun. Safety officials took the victim to Gan-nett clinic where she was examined and released, they said.

No new leads had been turned up in the case by yesterday morning. Edgar D. Armstrong of 139 Meadowbrook Court, Newfield, was charged with public lewdness involving an incident which occurred on the trail by Beebe Lake shortly before 4 p.m. Monday, Oct. 26.

Weekend activities on campus involved mostly false fire alarms, a number of broken windows, and two side mirrors torn off cars parked in the Kite

Hill Lot during the Bucknell football game. Damage was estimated at \$50 each for the mirrors.

Five false alarms were set off in the West Campus dormitories and Rockefeller Hall. In addition \$70 worth of damage was reported to a bicycle parked inside Barton Hall over the weekend.

Louis P. Chien of North Campus No. 8 reported his car was overturned while parked on McGraw Place sometime between 2:15 a.m. and 5:15 a.m. Friday.

Tuesday, Oct. 27, a student was turned over to the Judicial Administrator on charges of placing a bomb threat call.

Two students were turned over to the Judicial Administrator on charges of forging parking permits.

Larcenies on campus for the week Oct. 26 through Nov. 1 totaled nearly \$1,400, the largest being the theft of \$450 worth of chemicals from Olin Research Laboratory.

A student was turned over to the Judicial Administrator for attempting to sell back to the Campus Store a book reported stolen from the store earlier this month.

Graduate Bulletin

Late course registration and/or course additions, drops, and change of grade option are still possible with payment of a \$10 processing fee. Deadlines were Sept. 25 and Oct. 23.

Graduate students who received the "Graduate/Professional Student Expense Survey" should return completed questionnaires to the Fellowship Office, 116 Sage Graduate Center, by Tuesday, Nov. 10.

REMINDER: Deadlines for applying for the Fulbright-Hays Doctoral Dissertation Research Abroad Training Grant Program are as follows:

Nov. 5: East Asia — 140 Uris Hall

Nov. 6: all others — 114 Sage Graduate Center

Nov. 9: Eastern Europe and Russia — 180 Uris

Nov. 9: Latin America — 190 Uris Hall

Check the Fellowship Notebook in your graduate faculty representative's office or at the Fellowship Office for information on the awards whose deadlines are listed below. Unless otherwise stated, prospective applicants must obtain applications directly from the agency concerned.

Dec 1: **Lady Davis Fellowship Trust Awards for Study, Research or Teaching** — Awards for study at the graduate or post-graduate level at the Hebrew University or the Technion - Israel Institute of Technology, Haifa, are open to candidates regardless of race, creed, sex or nationality. However, priority is given to Canadian applicants when possible. Awards defray the costs of travel, tuition, and reasonable living expenses in Israel, and are tenable for periods of one or two years. For further information, see the sample application in the Fellowship Office.

Dec. 1: **Andrew W. Mellon Fellowships in the Humanities at Stanford University** — The competition is open to those who have received a Ph.D in the humanities between June, 1977 and September, 1982, preferably within the last three years. The award includes an annual stipend of \$20,000 and may be renewed for a second year. It provides non-faculty, one-year positions at Stanford, having a departmental affiliation and limited teaching duties and affords the opportunity for scholarly work and intellectual growth.

Dec. 1: **Social Science Research Council Fellowship for Doctoral Research in Employment and Training** — This is open to doctoral candidates in fields concerning policy and program issues in employment and training. Applicants must have completed all degree requirements except the dissertation. Grants provide: stipend, dependents' allowance, allowances for secretarial and clerical assistance, travel, materials and sup-

plies, communication services, and computer use. Costs may not exceed \$10,000 for a one year period. Applications will be submitted by the institution on behalf of the graduate student.

Dec. 1: Wellesley College - Mary McEwen Schimke Scholarship — This is open to women graduates of American universities. They must be over 30 years of age and currently engaged in graduate study in literature or history, with preference given to American Studies. The award provides \$500 to \$1,000 to defray housing and child care expenses while pursuing graduate study.

Dec. 1: Wellesley College - Harriet A. Shaw Fellowship — Applicants must be women graduates of American universities. They must be under 26 years old. Preference will be given to music candidates. Undergraduate work in the history of art is required for other candidates. Awards provide a stipend of \$2,000 to \$3,000 and may be used for study or research either abroad or in the United States.

Dec. 1: White House Fellowships — This is open to all U.S. citizens majoring in government or economics who are in an early stage of their studies. Fellows serve with pay as special assistants to cabinet officers, the Vice President, or senior White House staff. They participate in an extensive educational program exposing them to all sectors of the national government. They are Federal employees for the year, receiving a salary at the GS-13 level.

Dec. 1: Woodrow Wilson National Fellowship Program — Several grants are available: Administrative internships placing holders of the M.B.A. or another professional degree into management positions at developing colleges; Visiting fellowships which send non-academics to college campuses for a week; Faculty development awards for former Woodrow Wilson fellows in the northeastern states; Doctoral dissertation research grants for Ph.D candidates writing their dissertations on a topic concerning women; and the Charlotte Newcombe Fellowship for research and writing on religious and ethical values. See the Career Center for more details.

Dec. 4: Washington Center for Learning Alternatives (WCLA) — This is intended for graduate and professional degree candidates in business, economics, law, political science, and public administration. It provides 6 month internships in Washington, with a minimum stipend of \$800 per month. The Fellowship Office has a small supply of applications.

Dec. 11: Belgian American Educational Foundation (BAEF) Fellowships — These awards are for study in areas particularly well-suited and germane to Belgium. Applicants must be U.S. citizens who are under 30 years old. They must have speaking and reading knowledge of French and/or Dutch. They must be working on a Ph.D or equivalent degree. Applications must be submitted to the Fellowship Office. The university may nominate only one candidate.

Sponsored Programs

The Office of Sponsored Programs, 123 Day Hall, 6-5014, wishes to emphasize that the information in this column is intended for post-doctoral research unless otherwise indicated

S.S.R.C. SETS DECEMBER DATE FOR INTERNATIONAL POST-DOCTORAL RESEARCH GRANTS

The Social Science Research Council has set a December 1 receipt deadline for applications for Postdoctoral Grants for International Research. Grants are offered to scholars whose competence for research in the social sciences or humanities has been demonstrated by their previous work and who hold the Ph.D. degree or have equivalent research experience. The programs are designed to support research in one country, comparative research between countries in an area, and comparative research between areas. The grants may

be used for travel and research expenses as well as for maintenance, and grants may be held concurrently with grants from other organizations. Grants are normally made for periods of three months to one year. In requesting application materials, please provide the following information with your request: (a) a brief, explicit statement of the proposed training program or research project; (b) geographical area or areas of interest; (c) proposed site of research or training; (d) occupation or current activity; university or other affiliation; (e) country of citizenship and/or permanent residence; (f) academic degrees held, specifying disciplines or fields of study; (g) proposed date for beginning tenure of the award and the duration requested; (h) the approximate amount of support needed; (i) if requesting forms for a collaborative grant, the academic qualifications of the collaborator. Request application forms from: S.S.R.C., Fellowships and Grants, 605 Third Avenue, New York, NY 10158 (212) 557-9500. Grants are offered in the following areas: Africa, Contemporary and Republican China, and Japan, South Asia, Southeast Asia, Latin America and the Caribbean, Latin America and the Caribbean International Collaborative Research Grants, Near and Middle East, and Near and Middle East Fellowships for Advanced Training for Research on Law and Social Structure.

THE AMERICAN ANTIQUARIAN SOCIETY RESEARCH FELLOWSHIP PROGRAMS

The American Antiquarian Society has set a February 1, 1982, receipt deadline for applications to its 1982-1983 Research Fellowship Programs. A number of short- and long-term Visiting Research Fellowships will be awarded to qualified scholars who wish to pursue projects in early American history and culture and who wish to make use of the Society's collections during the year June 1, 1982 - May 31, 1983. Four categories of awards will be made: (1) N.E.H. Fellowships, (2) Samuel Foster Haven Fellowships, (3) Albert Boni Fellowship, (4) Frances Hiatt Fellowship.

All recipients are expected to be in continuous residence at the Society's library during the period of the grant. For some additional information and application materials contact: John B. Hench, Research and Publication Officer, American Antiquarian Society, 185 Salisbury Street, Worcester, MA 01609 (617) 755-5221.

Additional information is also available in the Office of Sponsored Programs.

NEH SETS FEBRUARY DATE FOR RESEARCH CONFERENCES

The National Endowment for the Humanities has set a February 15, 1982, receipt deadline for applications for Research Conferences. The program supports a limited number of conferences, symposia, and workshops to enable scholars to discuss and advance the current state of research on a particular topic, or to consider means of improving conditions for research or inquiry. Younger scholars as well as senior scholars should be invited to participate, and the meeting should appeal to as large an audience as possible. Special emphasis is placed on the potential of the conference to advance research on a significant problem; on the practical design of the meeting to provide maximum information exchange; and on the experience and ability of the applicant to manage the program successfully. Successful applications are usually those which are analytic rather than synthetic; small and manageable in size; focused on the state of the art or new directions in the field; and committed to providing some diversity of viewpoints. Level of funding normally ranges from \$2,500 to a maximum of \$10,000. Grant funds are used for planning and logistical support of the conference, including travel and per diem costs for contributing participants. In general, funds should not be used for honoraria or publication of the results. Institutional cost sharing of 20% is required. An additional deadline for this program will be November 15, 1982. For further information and application materials Contact: David Wise, Program Officer, Division of Research Programs

Mail Stop 350, N.E.H., 806 15th Street, N.W., Washington, D.C. 20506 (202) 724-0276.

NIJ SETS 1981-1982 DATES FOR THREE RESEARCH AREAS

The National Institute of Justice has set the following postmark deadlines for competitive research applications in three program areas. It is anticipated that from \$500,000 to \$1,000,000 will be allocated to support research in each of the three areas, and the individual grant awards will average about \$100,000 each. The research areas and the deadlines are: Crime Control Theory - Postmark deadline: December 5, 1981; First Cycle and April 17, 1982; Second Cycle; Criminal Justice System Performance Measurement - Postmark deadline: January 15, 1982; Classification, Prediction, and Methodology Development - December 19, 1981; First Cycle and April 30, 1982; Second Cycle.

AMERICAN FELLOWSHIPS

The American Association of University Women Educational Foundation awards dissertation and postdoctoral fellowships to women of the United States who have achieved distinction or promise of distinction in their fields of scholarly work. There are no restrictions as to age of applicant or academic field or place of study.

The greatest importance is attached to

the project's significance as a contribution to knowledge, and the applicant's qualifications to pursue it.

Awards are available for postdoctoral research for those who hold the doctorate at the time of application. Postdoctoral fellowships normally will not be awarded to women who have received the doctorate within the past three years nor for revision of the dissertation.

Approximately 70 dissertation fellowships are available for those who will have successfully completed all required course work and examinations for the doctorate except for the defense of the dissertation by January 2, 1982. It is expected that the fellowship would be used for the final year of doctoral work and that the degree would be received at the end of the fellowship year. (Preference is given to those who submit written statements from their departments confirming acceptance of the prospects.)

The deadline for applications has been set for December 15, 1981. Additional information may be obtained from the Office of Sponsored Programs.

NRC POSTDOCTORAL RESEARCH OPPORTUNITIES FOR 1982

The National Research Council (NRC) announces the Research Associateship Programs for 1982. These programs provide opportunities for basic and applied research to postdoctoral and senior postdoctoral scientists and engineers of unusual ability and promise. Opportunities

for research are provided in the fields of atmospheric and earth sciences, chemistry, engineering, environmental sciences, life sciences, mathematics, physics and space sciences. The NRC administers the Research Associateship Programs on behalf of and in cooperation with selected federal research organizations, which have laboratories at about 70 geographic locations in the United States.

Appointments are awarded on a competitive basis. The competition is open to recent recipients of the doctorate and in some cases to senior investigators. Some programs are open to non-U.S. citizens also. Approximately 250 new awards will be made in 1982. Stipends (subject to income tax) will begin at \$22,400. Grants will be provided for family relocation and for limited professional travel during tenure.

Postmark deadline for applications is January 15, 1982. Awards will be announced in April. Further information concerning application materials and specific opportunities for research is available from the Associateship Office, JH 610-P, National Research Council, 2101 Constitution Avenue, N.W., Washington, D.C. 10418. A copy of the announcement can be seen at the Office of Sponsored Programs, 123 Day Hall.

Glee Club Plans Homecoming Concert

The Cornell University Glee Club, under the direction of Thomas A. Sokol, will present its annual Homecoming Concert at 8:15 p.m. Saturday, Nov. 7, in Sage Chapel. This season marks Sokol's 25th anniversary as conductor of the club. He is professor of music and director of choral music at Cornell.

The Homecoming Concert program will be a preview of the club's upcoming tour of the southeastern United States and will include works by Schubert, Milhaud, Toch and Albrecht, as well as glees, folk songs, and the popular songs of

Cornell. Contralto soloist Joanne Ball will join the club for a performance of Schubert's Standchen.

Tickets, at \$2.50 for students and senior citizens, and \$3 for general admission, are on sale at Willard Straight Hall, the Lincoln Hall Box Office, Hickey's Music Store and at the door.

Since its founding in 1868, the Glee Club has traveled extensively throughout the United States and abroad. Over the last 25 years, its international tours have included performances in 23 countries around the world including Germany,

Russia, Czechoslovakia, Sri Lanka and the Commonwealth of Hong Kong.

The Glee Club has performed with many major American orchestras, including the Philadelphia Orchestra under the direction of Eugene Ormandy and the Buffalo Philharmonic under the direction of Michael Tilson-Thomas. Last year, the club completed a series of concerts with the Buffalo Philharmonic under the direction of Julius Rudel in Carnegie Hall and The Kennedy Center for the Performing Arts.

The Week in Sports

Gridders Whip Bucknell, Face Elis

Coming off a 22-15 victory over Bucknell at Schoellkopf Field last Saturday, the Big Red football team will meet powerful Yale at home this Saturday. The soccer team also will be at home this weekend with the Elis.

Sophomores Jeff Hammond and Derrick Harmon starred in last week's win over the Bisons, with Harmon picking up 124 yards with pass receptions and running for 78 more yards. Hammond, in his first long stint at quarterback for the varsity, came in in the second quarter and hit 8 of 12 passes for 187 yards.

The football game against Yale will be at 1:30 p.m. Saturday and the soccer game at 7:30 p.m. Friday, both on the Schoellkopf turf.

The Cornell footballers should have their hands full against Yale, as the Elis are undefeated thus far in 1981 and cruising toward their second consecutive Ivy League title. The Big Red, however, is hoping for a repeat of last year's contest in New Haven. Cornell played its finest game of the season that day, handing Yale its only setback in the league with a 24-6 upset of the Ivy champs. The Red completely dominated the game as it surprised the Elis and more than 18,000 fans at the Yale Bowl.

The last time the two schools met

in Ithaca, the Elis prevailed in an exciting homecoming contest, 23-20, in 1979. Yale won the game by scoring a touchdown in the final 1:47 of play, after Cornell had rallied from a 17-6 deficit to take the lead at 20-17 with just over six minutes remaining in the game. The contest was aired by ABC-TV as one of its regional broadcasts.

The Cornell-Yale soccer game will have an important bearing on the Ivy League race, as well as post-season playoff bids. The Big Red, 1-3 against Ivy competition, must win its final three remaining league games if it is to have a shot at the

league title. Last season, Yale and Cornell battled to a scoreless tie in New Haven. The Elis lead the series between the two schools, 20-15-10, and the two teams also tied in their 1979 meeting.

Hillel Foundation Plans a Retreat

Judaism in Today's Society, World Jewry and Zionism are the topics for the first Hillel Foundation Weekend Retreat, scheduled from 4 p.m. Friday, Nov. 13, to 1 p.m. Sunday, Nov. 15, at the Cayuga Nature Center.

The event is sponsored by Hillel of Cornell University, Syracuse University, Ithaca College and the State University of New York at Binghamton.

Some 100 participants are expected for the retreat, which includes workshops, guest speakers from Israel, Argentina and the U.S.S.R., professional entertainment from Israel, movies, role-playing, performances and nature hikes.

Attendance fee is \$18 for Hillel members and \$21 for non-members. More information on the Hillel retreat including transportation arrangements, is available from the Cornell Hillel office at 256-4227.



United Way
of Tompkins County

The Cornell portion of Tompkins County's United Way campaign has achieved 93 percent of its \$270,000 goal, according to Dean Jerome M. Ziegler, campaign chairman. The countywide campaign is now approaching the 90-percent mark.

Rhodes' Address on 'State of the University'

Continued from Page 1

perhaps unmatched in recent years. Within the last ten days we have learned that Roald Hoffmann, the John A. Newman Professor of Physical Sciences, has won not only the American Chemical Society's 1982 Award in inorganic chemistry, but also the 1981 Nobel Prize in chemistry which he shares with Kenichi Fukui of Kyoto University. In addition to his distinguished research achievements, Professor Hoffmann serves as department chairman and has been a dedicated teacher of both undergraduate and graduate students since he joined our faculty in 1965. In fact, he has taught the introductory course in general chemistry every year since 1966. It is that commitment of our most distinguished professors to teach undergraduates as well as more advanced students that is a hallmark of Cornell and which contributes so much to the high level of satisfaction among our student body.

Nearly a dozen Fulbright Awards were received by our faculty. Four were elected to the National Academy of Sciences. This number places us among the top three institutions in the nation.

Archie Ammons, the Goldwin Smith Professor of Poetry, together with two of our alumni, received "genius awards" as a result of an unusual nationwide search for creative people conducted by the MacArthur Foundation.

Gerald Fink was awarded the American Cancer Society Professorship, providing lifetime career support to encourage his productive research on cancer; Colin Rowe of the College of Architecture, Art and Planning, received national recognition for his "seminal influence on architecture in this country."

It was a remarkable year in the physical sciences. Ten members of the faculty have received prestigious awards and the Department of Physics as a whole received the IBM Award for Excellence in Condensed Matter Physics.

We are continuing our efforts to attract qualified women and members of minority groups to our faculty. Between July and October of this year, we appointed 72 new faculty to our colleges in Ithaca. Of these, 15 percent were members of minority groups and 18 percent were women. Women accounted for half of the appointments in the humanities and law. We are particularly pleased to have filled two important department chairs at the Medical College in Medicine and Anatomy.

Since 1977, when I arrived at Cornell, our student body has increased greatly in diversity. More women are enrolled university-wide and their increased representation is particularly evident in engineering, where women now account for one-fifth of our students, and in veterinary medicine where they are now in the majority. Minority enrollment has increased from 8.4 percent of the student body in 1977 to 13 percent today, and a full 20 percent of this year's entering class are members of minority groups. As was the case five years ago, students continue to come from across the nation, but over the past few years, we have greatly increased the number of students from the southwest and this year from the midwest as well.

The search for increased diversity has not compromised quality.

On the contrary, the qualifications of our students today are even more outstanding than those of the Cornellians of five years ago. What is so impressive about these young men and women is not just their academic qualities - great as those are - but rather the remarkable range of their interests and the maturity of their outlook. Today's students are still engrossed in their studies but they are also eager for extracurricular activities and truly concerned about their classmates. As an example, I am happy to report that Nanette J. Fondas '81 became the 17th Cornellian, and the first Cornell woman, to win a Rhodes Scholarship.

Our staff continues to be a critical resource for the smooth functioning of this small city within a city called Cornell. Over the past several years we have made a systematic effort to attract and retain the very best people. We have improved the salary structure and benefits package, and provided more training and career opportunities, and we shall continue to seek improvements within the constraints imposed by the very real economic pressures with which we must cope.

The past year has also been one of increased union activity on campus, culminating in the organization of the more than 900 maintenance and service workers by the UAW and a two-week strike. I am pleased to report that a fair and equitable contract has now been reached.

This year, too, has brought changes in university governance. The Campus Council, after a community-wide review of its operation, was replaced by a tricameral system of governance, and by a university-wide assembly.

The trustees have established an ad hoc committee to review the effectiveness of the Board of Trustees as the university's governing body. Our goal is to provide a board structure capable of promoting the welfare of the university as a whole and of dealing with the complex policy questions and problems facing the university over the next two decades.

Those problems will remain significant, despite the encouraging financial position the university has attained. This year the university was again able to report modest year-end surpluses in general purpose fund balances in all its units.

We enter the current year with balanced budgets in our Ithaca units and a balanced operating budget for the Medical College. An important part of our deliberations this year has been the implementation of a longer range planning process to assist us in the thoughtful ordering of our goals and priorities.

We are deeply concerned, however, about changes in the level of Federal funding, especially for research and financial aid. Federal support for research at Cornell will approach \$90 million this year, but it is likely to remain at its present level for the physical sciences and engineering and to be cut substantially - perhaps by as much as 50 percent - in the social sciences over the next two years. We face serious problems as the value of these dollars is eroded by inflation.

In the area of financial aid, we expect a loss of up to \$2 million next year as a result of the second round of Federal budget cuts now underway. A loss of this magnitude is

impossible for Cornell to assume, and the university, together with our students and their parents, will need to devise creative alternatives to this aid in the face of increasing educational costs.

On a more positive note, we have completed several major building projects this year and made substantial progress on others. Completed projects include the renovation of Schuyler House and Sheldon Court to accommodate an additional 150 students, a \$1.5 million capital improvement at the James A. Baker Institute for Animal Health, the \$3.8 million National Research and Resource Facility for Submicron Structures, and the Aaron Binkorb Admissions Office for the College of Arts and Sciences.

Projects still underway include renovation of Cascadilla Hall, which will add a further 390 student beds, expansion of the Arboretum area of the Cornell Plantations, the new building for Biological Sciences, the addition to Uris Library, and major renovations of Rockefeller and Goldwin Smith Halls. Projects in the development stage include the Geological Sciences Building and academic buildings I and II.

Several developments in academic programs have taken place during the year. Our Cornell-in-Washington Program is now well

'We are deeply concerned about changes in the level of federal funding, especially for research and financial aid.'

established and has proved tremendously successful. More than 60 students are now enrolled in this program.

This year, too, we established two new institutes, the Cornell Institute for Social and Economic Research and the Institute for Comparative and Environmental Toxicology. These will help us to coordinate better the expertise available on campus for research in these fields.

On the international scene, we have taken deliberate steps to admit qualified black graduate students from South Africa, 8 of whom are on campus this year. Dean Alison Casarett traveled to South Africa this summer to facilitate this program. Also on campus this fall are 82 scholars from the People's Republic of China, one of whom is a second generation Cornellian. Their presence is an outgrowth of agreements we signed with various Chinese institutions during our visit there last year. In turn, five Cornell graduate students are working in China this semester, and many of our faculty have visited the country during the past year. I believe such bridges as these are of great importance to future world understanding.

Renewal and change: These are the characteristics of the life of the university. In this we mirror the era of rapid change in which we live. As Sir Peter Medawar has observed, "Today the world changes so quickly that in growing up we take leave not just of our youth, but of the world we were young in." I should like to talk in more detail about two areas - medical education and university-industry cooperation - that dramatically illustrate these trends.

Medical Education

Advances in medical science in recent years have been nothing short of incredible. Diseases that were scourges 20 years ago have been controlled or eliminated. Millions of men and women now enjoy not only longer lives but potentially more productive ones. The consequences have been far reaching, both for individuals, and for the nation as a whole.

Yet medical education at Cornell and elsewhere must address four major challenges in the years ahead, challenges that have been brought about in large measure because of the tremendous success of medical science.

First, we must find a way to cope with the vast array of existing knowledge and to assimilate the new knowledge that is growing exponentially year by year. How can we train physicians for lifelong careers in medicine when we know that much of what we teach them will be outdated before the ink on their board certificates is dry?

The second major challenge is to sustain the diversity of our medical students. During the past decade, the nationwide percentage of minority medical students has increased from two and one-half percent to eight percent and that of women from ten percent to 25 percent. These improvements may now be threatened by diminishing Federal assistance to needy students.

The third challenge is how to encourage more of our students to become physician researchers, capable of the kind of basic scientific inquiry from which medicine is now reaping such rich fruit.

Lewis Thomas has made the case for the medical research convincingly: "Without the long, painstaking research on the tubercle bacillus we would still be thinking that tuberculosis was due to the night air, and we would still be trying to cure it by sunlight...."

Modern clinical success in the treatment of tuberculosis and a host of other diseases rests on a foundation of prolonged, disciplined research in basic science. Yet the nation's medical schools are training only one quarter to one half of the physician-researchers we shall need in the next decade. The medical researcher is becoming an endangered species, and the consequences for the improvement in health care are grave.

Dean Mickle has proposed that our medical curriculum should reassert the importance of research and training in the methods of science by requiring our students to take an active role in the research program of the college. A new curriculum is being developed upon this basis.

We are developing a new curriculum in our M.D./Ph.D. programs, which we offer jointly with Rockefeller University and Memorial Sloan Kettering, next fall, and, if the approach proves successful, we shall extend it to the entire Medical College curriculum.

A crucial element in the success of the proposed curriculum will be our ability to strengthen our basic science departments. We shall be announcing shortly the formal opening of a major fund-raising campaign to address the critical needs of the New York Hospital-Cornell Medical Center, and we have proposed that some \$25 million of our campaign goal be set aside to

strengthen the basic science departments at the Medical College.

Trustee Stephen Weiss, chairman of the Board of Overseers, has just made a magnificent personal contribution to launch this campaign. Our campaign goal is an ambitious one, but we are confident that with your support, we shall attain it.

There is a danger as well as promise in this new curriculum, for it may further distort the pre-medical curriculum and narrow the studies of premedical students, that peculiar breed of undergraduate that Lewis Thomas has described as "...drawing breath only to become doctors...". This is the fourth, and perhaps most urgent, challenge facing medical education. How can we instill in those who practice medicine a strong ethical and moral foundation? When physicians can not only cure the sick but also prolong the lives of the terminally ill and the hopelessly injured, they incur heavy moral responsibility for their actions. They must decide not only how to intervene, but when to intervene, and whether to intervene at all, and they must be guided not only by what is technically possible, but by what is humanely consonant.

These challenges are not unique to medicine. They exist in disciplines and professions as different as toxicology, engineering, computer science, business, and law. Yet it is in medicine that these challenges are most directly intertwined with individual human lives, and it is in medicine that thoughtful solutions are most urgently needed.

The evidence is building that those we have been selecting for medical school, students with superior records in a narrow range of science courses, do not necessarily make better clinicians - and often make considerably worse clinicians - than their more liberally trained classmates. For medicine is at once an art and a science, treading a tortuous path between two worlds that are at once antithetical and desperately in need of each other.

The challenge for medical education today is to train physicians who share not only an understanding of the biology of disease and a mastery of the most advanced technology, but who also retain a sense of compassion and understanding and a sensitivity to the patient as a person.

Edmund Pellegrino once observed that medicine is at once "...the most humane of the sciences, the most empiric of the arts, the most scientific of the humanities." That is the tradition of Hippocrates, Galen, Thomas Browne and William Osler. It is also the tradition of Cornell. It is our lodestone for the future.

University-Industry Cooperation

Just two weeks ago, we dedicated the magnificent National Research and Resource Facility for Submicron Structures. As some of you may remember, the National Science Foundation selected Cornell as the site for this major facility from among nearly a score of competing institutions, and provided a \$5 million grant for support of the facility, on the condition that the university provide suitable space to house it.

We owe much to the Ellis L. Phillips Foundation, the J. N. Pew Charitable Trust, to many corpo-

Continued on Page 8

Brief Reports

B Lot-Collegetown Schedule Changed

The university's B Lot-Collegetown bus run schedule has been adjusted slightly to accommodate peak ridership demands, according to William E. Wendt, director of Transportation Services.

The bus now leaves the Collegetown stop at quarter hour intervals from 7:30 a.m. through 9:15 a.m., and at 9:45 a.m., 10 a.m., and 10:15 a.m. The remainder of the schedule continues as established.

The change involves eliminating the previous 9:30 a.m. run and adding the one at 10:15 a.m.

For more information, call the Campus Bus Service at 256-3782.

Art Show and Sale At Ornithology Lab.

"Birds, Wildflowers and Landscapes," an exhibition of color photographs by William Albern, will be on view at the Laboratory of

Ornithology through Jan. 9, 1982. Albern is a mechanical engineering group leader in the Department of Design and Project Management. The photographs are all framed and matted and are available for purchase.

The Laboratory of Ornithology, located at 159 Sapsucker Woods Road, is open 8 a.m.-5 p.m. Monday-Thursday; 8 a.m.-4 p.m. Fridays and 10 a.m.-5 p.m. Saturdays and Sundays. Free parking is available.

Cambridge Professor Will Give Lecture

John A. Emerton, the Regius Professor of Hebrew at the University of Cambridge, will lecture on "Bible Translations" at 4:30 p.m. Tuesday, Nov. 10, in the Hollis Cornell Auditorium of Goldwin Smith Hall.

Emerton had a major role in the translation of the Old Testament for the "New English Bible."

Since 1971 he has been the secre-

tary of the International Organization for the Study of the Old Testament and since 1976, the editor of "Vetus Testamentum," the international journal for the study of the Old Testament.

Emerton is a fellow of St. John's College and of the British Academy. Since graduating from Oxford University, Emerton has received honorary degrees from the universities of Cambridge and Edinburgh.

The lecture is sponsored by the University Lecture Committee and the Society for the Humanities.

Credit Union Open House

All members of the Cornell community and their families are invited to attend the annual Credit Union Open House at 2 p.m.

Wednesday, Nov. 11. This year, the open house will be held at both the Bailey Hall and East Hill Plaza offices.

Refreshments will be served and

there will be three drawings, one at each of the offices for those in attendance and another for those who are unable to attend.

Entry blanks for those who can attend are available in both offices. For those who cannot attend, there will be a special "mail in entry blank" in the October CFCU News Notes, which will be mailed to all CFCU members. There will be five prizes awarded in each drawing.

All members of the Credit Union, except for CFCU employees and committee members, are eligible to enter the drawings.

Dean of Students Will Give Talk

Cornell's Dean of Students David Drinkwater will speak at the Sage Chapel Interreligious Service at 11 a.m. Sunday, Nov. 8. His sermon topic will be "Conformity and Transformation."

Before coming to Cornell in 1980, Drinkwater did post-doctoral research work at Harvard Graduate School of Education. He served as dean of students at Amherst College from 1973 to 1978 and from 1970 to 1973 was associate dean at the State University of New York College at New Paltz.

Drinkwater is a 1964 graduate of Oxford University, and received his doctorate in modern history from Oxford in 1971.

Music for the service will be provided by the Sage Chapel Choir under the direction of Donald R.M. Paterson, Sage Chapel choirmaster and university organist. Graduate student Stephen May is assistant conductor and accompanist.

Rhodes' State of the University Address to Council and Trustees

Continued from Page 7

rations, especially AT&T, IBM, Raytheon and Sperry Rand, and finally to Lester B. Knight, whose capstone gift of \$2 million enabled us to complete the building in such fine style, and for whom, in recognition of this gift and others, we have named the new building. It is truly a remarkable facility and one of which Cornell can be justly proud.

The enthusiasm with which the private sector, particularly industry and the foundations, has supported this facility seems to me to symbolize the renewed partnership between the universities and industry. Such partnerships are much in the news at many universities including Harvard, M.I.T., Washington, Stanford and Berkeley, to name but a few.

Much has been made both of the dangers to academic freedom posed by such agreements and of the potential benefits to both university and industry. What has somehow been lost in the debate is that recent agreements, while notable for their magnitude, represent not a new philosophy of university support, but rather the continuation of a partnership that existed long before the federal government became the principal supporter of academic research in the years following World War II. Today, however, economic conditions are once again uniting universities and industry - in partnership with the federal government - in a common quest to preserve the vigor of basic research in this country. The success of our investment in basic research, more than two-thirds of which takes place at the nation's universities, is easily documented.

In the years before World War II, for example, U.S. scientists received only 20 of the 142 - or 14 percent - Nobel prizes in the sciences. Between 1946 and 1981, they received 109 of the 208 prizes awarded - that is 52 percent - and almost all of these Nobel prize winners did their work at a major American university.

That basic research has borne applied fruit. In the period 1953-1973,

for example, the U.S. produced 65 percent of the worldwide total of 492 major technological innovations.

Yet, herein lies the paradox. For although American science remains pre-eminent, the nation is now finding itself lagging in innovative technology. While U.S. researchers were busy collecting Nobel prizes in physics and chemistry during the past 30 years, Japanese researchers received only two, yet Japan has doubled its share of the world market in high technology products in just the last 10 years.

As one wit put it, "America can operate robots on Mars by remote control, but cannot sell a competitive citizens band radio. It can photograph, from a satellite, a Siberian scientist going for his tea break, but the American consumer increasingly turns to imported Japanese televisions based on German technology."

There are other signs of slippage as well.

Between 1970 and 1976, U.S. patents awarded to non-residents increased 28 percent, while those awarded to residents decreased by 17 percent. In Japan, by contrast, the percent awarded to non-residents decreased by 20 percent, while the percentage awarded to residents increased by 26 percent.

Although the United States still spends more on research and development than any other nation, its investment in R&D, expressed as a percentage of GNP has decreased 27 percent in the last 15 years; it decreased 16 percent between 1969 and 1979. Comparable R&D spending increased in the Soviet Union, West Germany and Japan by 14 percent, 15 percent and 16 percent respectively.

Investment by U.S. industry in basic research as a fraction of net sales decreased by 29 percent between 1969 and 1979.

Federal funding for basic research as a fraction of the federal budget decreased by 21 percent between 1969 and 1979.

Research equipment at American universities is now nearly twice as old as comparable equipment in industry.

Nationwide there are an estimated 2,500 faculty vacancies in engineering departments, and we are not training enough new Ph.D.s to fill them.

In the period 1970-80, there has been a 30 percent decline in the number of doctorates awarded in engineering and a 32 percent decline in those awarded in the physical sciences. Nearly half the graduate students now enrolled in engineering are foreign nationals.

The time has come, I believe, for universities, industry, and the federal government to join together in the difficult task of replenishing our bank of basic knowledge. At stake is not simply the health of Cornell or of the nation's other major universities. It is nothing short of the revitalization of our nation's economy and the preservation of our national security and way of life.

A first priority must be to restore the universities' teaching and research facilities to a level that will permit significant advances in basic research and appropriate training facilities. Second, we must provide an adequate pool of trained manpower. Third, universities such as Cornell must develop policies and guidelines that allow us to cross disciplinary boundaries by bringing together the wealth of faculty expertise that is available and directing it towards important research areas. Moreover, we must do this without compromising the integrity of the university. We have already shown at Cornell in the Material Sciences Center and at the National Research and Resource Facility for Submicron Structures, that this approach can yield considerable success. We now hope to extend that concept to other areas, including toxicology and the biological sciences, where successful cooperation that crosses disciplines holds much promise.

Achieving these goals will require a new partnership between the federal government, industry and the universities. We must develop a policy of federal investment in the nation's leading research institutions, those 50 or so major univer-

sities with proven records of outstanding research.

We need a national policy on manpower priorities to encourage more of our most able students to pursue academic careers in areas of crucial importance to the nation.

We also need further incentives to encourage more industrial funding of research. Industry will never replace the federal government in supporting basic research, but it can play a more substantial role. Today it provides only about three percent of the total funding for university research.

Industry might take its cue from the Exxon Education Foundation, which recently made available some \$15 million to the nation's leading research universities to encourage students to seek graduate training and to support junior faculty. I might add that Cornell ranks second among all the private institutions receiving support under this program. Exxon, by this magnificent commitment, has recognized the basic truth: Education is not a service but an investment in human capital. Without that investment, the vitality of our industries, and the vitality of the nation as a whole will be compromised.

We must also explore more direct partnerships with industry, for these are potentially the most productive, and at the same time the most controversial, methods of collaboration. I recognize that there are those, both in the universities and in industry, who view such partnerships with skepticism and suspicion.

Certainly such partnerships are not without problems, but despite these problems, I believe the time has now come for both corporate America and the nation's major research universities to explore an expanded partnership in the research enterprise. If these ventures are to succeed, we need a realistic assessment of the interests and goals of both industry and the university, and a protocol for ensuring that the fundamental values of the university are respected and preserved. We shall work with our faculty in this area.

Let me make one final point with regard to the urgency of a new partnership between industry, the Federal government and the university. I have argued that support for science and technology is vital to our research effort, and research is, in turn, vital to our national prosperity and progress. It is the foundation for almost all material progress: in food production, health care, industrial productivity, energy supplies, natural resources, environmental protection, urban development and a host of other areas. But man does not live by technology alone. Research is necessary but it is not sufficient in the promotion of the wider welfare of humankind. That is why I hope that faculty not directly involved in science and technology will take an active role in these discussions, for in strengthening our scientific base, we must preserve the more humane values that give context and meaning to our science.

John Hersey, commenting on the differences between the world of science and the world of the humanities, has written, "In the physical sciences and engineering, laws hold sway. That to every action there should be an equal and opposite, or contrary reaction is absolutely confirmable. One can count on it. ... literature, on the other hand, is a tangled bank of honeysuckle gone wild. In letters there are no laws, only conventions, whose greatest beauty lies in their sweet fragility. Here we can count on nothing. Nothing can be proved. ... The two worlds are antithetical, but they desperately need each other."

It is the task of the university to meet that need, to bring those two worlds together as equal partners, rather than competing adversaries; to engage them in creative debate, rather than in proud isolation. For we need, as one wise observer remarked, ... not just science or humanitarianism in science and science in the humanity of man.