

New Submicron Center to Be Dedicated

Ceremonies Oct. 16 Address Key Research Questions

How will the U.S. electronics industry be affected by international competition, taxation policies, trade regulations and the state of the economy? How can American educational institutions maintain faculty excellence under increasing competition from industry? Can universities and industry cooperate to find mutually beneficial solutions?

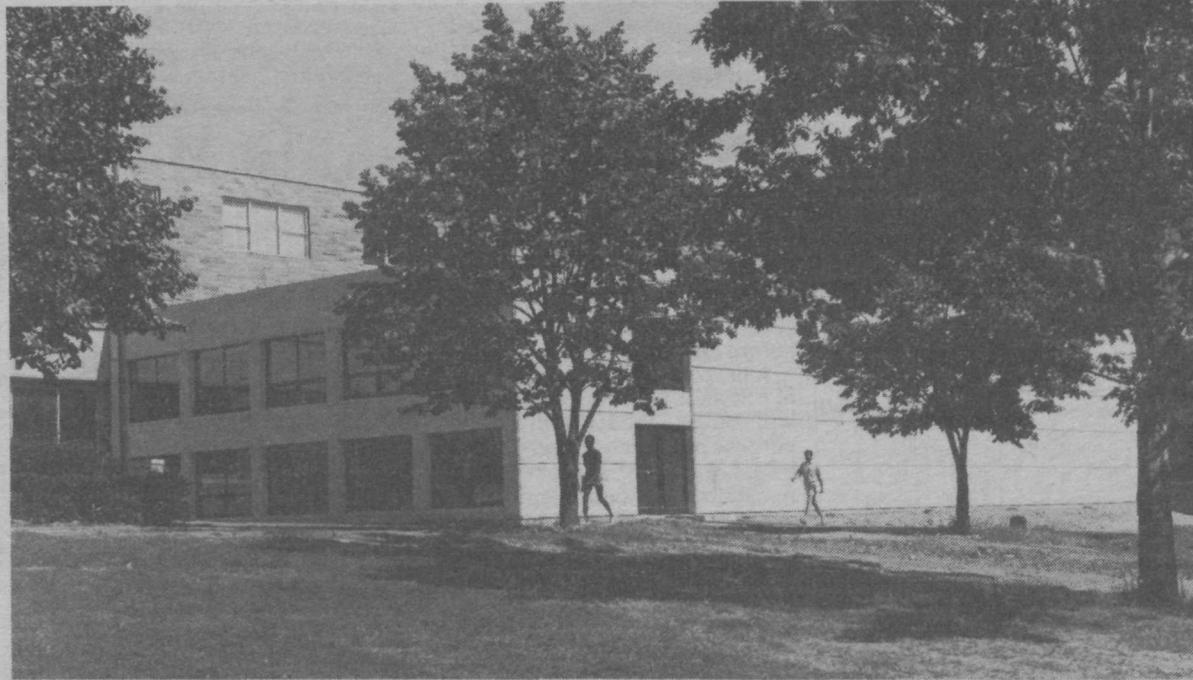
These are among the questions to be addressed when the National Research and Resource Facility for Submicron Structures at Cornell University marks the opening of its new \$3.8 million laboratory on Friday, Oct. 16, with a two-part symposium: "Key Issues Facing the U.S. Semiconductor Industry in the 1980s" and "Key Issues Facing Technical Education in the 1980s."

The symposia begin at 9:30 a.m. in the Alice Statler Auditorium and continue, after a luncheon, at 1:45 p.m. in 120 Ives Hall. They are open to the public at no charge.

Among the leaders from industry, government and education participating in the symposia will be William G. Howard Jr., vice president and director of technology and planning, Semiconductor Products Division, Motorola, Inc.; Charles E. Sporck, president, National Semiconductor Corp.; Donald N. Langenberg, deputy director, National Science Foundation; Rep. Gary A. Lee, R-33rd Congressional District, N.Y.; and Rep. Matthew McHugh, D-27th Congressional District, N.Y.

Dedication ceremonies for the new laboratory are scheduled for 4 p.m. Friday, Oct. 16, on the Joseph N. Pew Jr. Engineering Quadrangle at Cornell.

Speakers at the dedication ceremonies will be Edward D. Wolf, director of the new facility; Thomas E. Everhart, dean of engineering at Cornell; Langenberg; Arthur M.



The National Research and Resource Facility for Submicron Structures will be dedicated Oct. 16.

Bueche, senior vice president of corporate technology at General Electric; and Frank Rhodes, president of Cornell. Jerrier Haddad, chairman of the Cornell Engineering College Council and recently retired vice president for technical personnel development at IBM, will serve as master of ceremonies.

Established in 1977 with a \$5 million grant from the National Science Foundation, NRRFSS is the only microstructure science laboratory in a university that is available to visiting researchers from other universities, government and industry. It has been operating in Phillips Hall, home of the Cornell College of Engineering, while the

specially-designed laboratory was planned and built.

The new laboratory is part of a total effort amounting to \$10.7 million to date. This includes the support of the research program, capital equipment and support services over the past four years.

The main goals of the national facility are to advance submicron (one micron equals one millionth of a meter) fabrication technology through research and advanced education; to stimulate research on problems that affect or limit the application of submicrometer technology; and to disseminate information about ongoing work in this field to the technical community.

Noting that the U.S. integrated circuit industry now faces the first serious challenge (from Japan) to its leadership since transistors replaced vacuum tubes, Dean Everhart predicts another "leapfrogging" of existing technology. "No one can say how, in the year 2000, electronics devices will be made. They may all be silicon integrated circuits—and a lot of companies hope they will be—or they may all be quite different. The leaders in vacuum tubes are not the leaders in integrated circuits, and today's leaders in integrated circuits may not be the leaders in microelectronics in the year 2000 if knowledge progresses to the point where

we leapfrog again. No one really knows and that's the intellectually exciting part. We (Americans) invented the transistor and we invented the IC, and we better be the ones that invent the next generation of electronics.

"If we stay in the lead we will create a great number of jobs and continue to earn a great amount of foreign exchange," Everhart says. "But if we lose that lead, those jobs will be created in other countries and we will be paying other countries for those products."

In the belief that the nation's semiconductor industry will be grappling with issues beyond its own technological development, participants in the industry symposium were chosen for their knowledge of government, economics and education. Among the issues to be discussed: How will the industry participate in and be affected by technical information exchange among nations? How can a supply of well-educated technical personnel be assured? And how will the industry be affected by trade regulations, international economic competition, taxation policies and the state of the economy, here and worldwide?

Panelists in the technical education symposium will consider the problems of people, money and space: How can educational institutions maintain excellent faculties under increasing competition from industry in terms of both salary and facilities? How can they secure sufficient funds to keep the teaching programs attractive to able students and the research activities up to date and properly housed?

Some 300 researchers, educators, industry leaders and government officials are expected to attend the symposia.

(See related picture on Page 4)

Rhodes Describes Cornell Budget Process

Tells Assemblies of 3 Major Components

In a speech before a joint meeting of the assemblies last Thursday, President Frank Rhodes addressed several topics including the university's budget planning process.

Student, faculty and staff input into next year's budget will be obtained through the advice and comment of several groups on campus, including the University Assembly's Priorities Committee and the Faculty Council of Representatives' Budget Committee, Rhodes said.

The process will be taking place over the next six months, he said, with the budget scheduled to be presented to the Board of Trustees in March. Rhodes also said that Provost W. Keith Kennedy hopes that by mid-November he will have ranges of budget figures available for public discussion.

Rhodes cited the three major components of the budget as tuition, financial aid and salaries. The rest, he said, though important, are rela-

tively dependent on those.

Rhodes also said that the three constituencies—faculty staff and students—will have to establish priorities, each taking the others' into consideration.

The outcome of the 1981-82 budget, according to Rhodes, will be affected by the unpredictable economy—high interest rates, the rate of inflation and a depressed stock market.

This is one year after the Cornell Campaign, Rhodes said, and it's going to be more difficult than usual to attract gifts from major donors.

"We've gone to all our major donors as part of the campaign and we have a tough assignment ahead in repeating the level of giving that has gone on for the last few years," he said.

Continuing reductions in the federal budget will seriously affect research programs in the social sciences and the humanities he said. Financial aid is another area that is

being seriously affected by federal budget cuts.

"Although there will be federal reductions in the Guaranteed Student Loan program as well as in Pell Grants and Social Security, there have been improvements made at the state level through higher TAP awards and a new federal loan program known as ALAS," he said.

The admissions figures for this year show that total applications were virtually the same as last year's (16,988 down from 17,007) said Rhodes, and the overall yield, SAT scores and high school class rankings of the freshman class are higher than in previous years. There is also a wider geographic distribution of the freshman class and a higher proportion of minority students.

"Minority student enrollment has gone up to 20 percent from 16.5 percent over last year," Rhodes said.

Rhodes also told assembly members that the Cornell-in-Washington Program, which began in the spring of 1980 with 16 students, has grown to 60 participants. He also said that the number of faculty in residence has increased to two from one, and that Walter LaFeber, the Marie Underhill Noll Professor of American History, will chair an advisory committee to oversee the administration of that program.

The president also announced that the Provost's Committee on Undergraduate Writing Skills will report sometime this fall.

"The Freshman Seminar Program will be under review when the committee's report is made public. We want to be satisfied that, good as the instruction in the program is, it is the best we can offer in terms of the varied needs and interests of our Cornell students," Rhodes said.

He also said that he was pleased with the quality of faculty members who have been recruited this year

and pointed out that there are 67 new faculty members as of Sept. 18. Ten are minority members and 18 are women.

In outlining construction projects that either are taking place on campus or that are planned, Rhodes said, "Important as these various projects are, we cannot continue to add and add to campus buildings. We cannot continue to renovate and build additional space, without being conscious of the fact that every square foot we add costs \$6 per year to maintain."

The president then announced that there will be a campus-wide review of space utilization which, he said, is something that will "not be uniformly welcomed."

"In order to use our space effectively we have to understand how the space is used and what the priorities are."

Status of Women Committee Members Named

Subcommittees to Focus on Seven Areas

Membership of the 1981-82 Provost's Advisory Committee on the Status of Women has been announced by Provost W. Keith Kennedy.

Nancy Meltzer, assistant dean in the New York State College of Human Ecology at Cornell, will chair the committee. Other members are:

Carol Anderson, associate director, Cooperative Extension; Sue Batutis, administrative aide, Dean's Office, Arts and Sciences; Jean Blackall, professor, English; Avis Cohen, research associate, Neurobiology & Behavior; Marilyn Collins, assistant professor, Near Eastern Studies;

Alice Cook, professor emeritus, Industrial and Labor Relations; Elizabeth Earle, associate professor, Plant Breeding; Daphne Jameson, assistant professor, Hotel; Nancy Kaplan, director, Writing Workshop; Ann Lemley, assistant professor, Design and Environmental Analysis;

Sally McConnell-Ginet, associate professor, Linguistics; Lorie McElroy, undergraduate, Arts and Sciences; Catherine Murray-Rust, reference librarian, Olin Library; Carol O'Brien, senior administrator, Development;

Harriet Peters, assistant director, Placement, Business and Public Administration; Liz Phelps, administrative aide, Development; Wendy Phoenix, senior administrator, Architecture, Art and Planning; Donna Philbrick, graduate student, Business and Public Administration; Susan Riha, assistant professor, Agronomy;

Janet Smith-Kintner, assistant director, Learning Skills; Glenna Thaler, assistant executive director, Cornell Council; Judy Van Dermark, secretary to the director, Residence Life; Toni Wilkinson, senior lecturer, Communication Arts, and Nancy Wilson, compensation staff specialist, Computer Services.

The committee's charge is to improve the status of women at Cornell — as faculty, staff and students, according to Ann Roscoe,

committee staff person.

"Through its diverse membership, the committee keeps informed of continuing and emerging issues affecting Cornell women, proposes policy changes to the provost to alleviate problems, and plays a supportive role to all women at Cornell," Roscoe said.

The committee will continue to implement Title IX regulations that prohibit sex discrimination in

educational programs and activities.

Subcommittees will focus on seven areas this year. They are: employment problems related to women's role in the family; recruitment and retention of women students, faculty and staff; sexual harassment; employment issues of nonacademic staff; athletics; conflict between policies concerning affirmative action searches and

promotion; employment issues of instructors, lecturers, research associates, extension associates and librarians.

The committee welcomes questions from the Cornell community regarding university policies and procedures affecting women. Contact committee members or Roscoe (256-7596) either for information or to bring specific problems to the committee for discussion.

Student Assembly Meets Today

The Student Assembly will meet at 5 p.m. today in 202 Uris Hall. The agenda includes a report from the assembly's Staffing Committee and several proposals that will come before the group.

A proposal for the establishment of a Student Grievance Committee will come up for discussion. The purpose of the committee, if established, would be "to make recommendations for improvements in problem areas of grievance handling." The committee would also

"establish and review the activities of the Student Ombudsman," who would be selected by the University Ombudsman with the concurrence of the Student Assembly.

Another proposal, which is scheduled for the meeting, is for the establishment of an escort service on campus. The service, which would be staffed by students, would be responsible for "providing a Student Safety Aide to walk with individuals who might otherwise be walking alone."

A proposal for an Off-Campus Life Committee which would address the concerns of Cornell students who live off campus is also on the agenda.

Meetings of the Student Assembly, which are scheduled for 5 p.m. on the first and third Thursdays of each month, are open to all members of the Cornell community.

The University Assembly, which meets at 4:45 p.m. on the second and fourth Thursdays of each month in 405 Malott Hall, and the Employee Assembly, which meets on the first and third Tuesdays at 12:15 in B8 Roberts Hall, are also open to any interested Cornell community member.

Each of the assemblies has been meeting since the beginning of the semester. Notices of the meetings and agendas as well as articles about the meetings will appear in the Chronicle at appropriate times. Students, faculty and employees are encouraged to look for the information and attend the meetings. The Office of the Assemblies is located in 165 Day Hall, telephone 256-3715.

The University Assembly meeting schedule for the rest of the semester is: Oct. 7 and 22; Nov. 12 and 23; Dec. 10.



Cornell fans at the Big Red's home opener at Schoellkopf last Saturday had a new attraction at halftime when Kori West, 10, performed with the Big Red Band. The fifth grader from Dryden Elementary School holds several titles: Juvenile Miss Majorette of New York, New York State Strut and Twirling Champion, Miss World Majorette. Kori is the daughter of Mr. and Mrs. Robert West, 68 Spring Run Road, Freeville, and a protege of Chris Myer Radi '78, the Big Red Band's last baton twirler.

Addresses Printed on Paychecks

The home address of each employee will be printed on his or her paycheck, beginning today. It will be the address used for mailing W-2 forms and for other legal communications from the university.

This addition to paychecks is to provide the university with current and correct home addresses for all employees as required by law, according to R. Wade Schutte, manager of personnel systems.

An employee who needs to change or correct the address printed on a paycheck should list his or her full

name, Social Security number, new address and effective date of change, and send it in a signed letter to:

**Address Change
University Personnel Services
147 Day Hall**

Address changes may take several weeks to process.

The listing of the home address on the paycheck will not affect the address carried by either the university registrar or in the staff telephone directory, Schutte said.

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.

Professional/Administrative
Personnel Officer, CP4(Cornell Dining)
Director of University Development (University Development)
Director of Public Affairs-Vet. School, CP7(Vet. Admin.)
Asst. Dir. Estate Affairs, CP6(Univ. Development)
Research Support Specialist II, CP4 (Nuclear Sciences and Engineering)
Development Officer I, CP4(Deans Office, CALS)
Manager, Media Services, CP3(Summer Session/Extramural)

Clerical
Secretary, GR18(NYS Extension, NYC)
Office Assistant, GR18(Computer Services)
Secretary, GR18(Animal Science)
Library Aide, GR18(University Library-Law)
Office Assistant, GR17(Support Services)
Library Aide, GR16(University Library, Serials/Olin)
Library Aide, GR16 University Library, Physical Science)
Research Aide, GR20(CRSR-Lab. for Planetary Studies)

Technical
Technician, GR22(Pharmacology)
Computer Programmer, GR21 (Agronomy)
Computer Operator, GR20(Computer Sciences)

Part-time
Secretary, GR18(Office of Equal Opportunity)
Secretary, T-2(Coop. Ext. Admin., Sea Grant Ext., Oswego)
Library Aide, GR17(Library, Geneva)
Conference Secretary, GR17(Theoretical & Applied Mechanics)
Research Aide, GR20(Prog. on Sci., Tech. and Society)
Office Assistant, GR16(Hotel Administration)
Animal Attendant, SO16(Section of Physiology)
Technical Assistant, GR16(Entomology)

Temporary
Temp. Office Assistant, T-2(Public Affairs Regional Offices, North Central Region, Cleveland)
Temp. Laboratory Tech., T-3(Clinical Sci/Clinical Path.)

Service and Maintenance
Nurses Aide, SO17(University Health Services)
Head Custodian, SO17(Buildings & Grounds Care)
Material Handler/Delivery Driver, SO18(Varied)
Short Order Cook, SO18(Cornell Dining)
Food Service Worker, SO17(Cornell Dining)

Cashier, GR15(Cornell Dining)
Custodian, SO16(Varied)
Line Server, SO14(Cornell Dining)
Door Checker, SO14(Cornell Dining)
Cook, SO22(Cornell Dining)
Dish Machine Operator, SO16(Cornell Dining)
Sales Assistant, GR15(Campus Store)
Laboratory Attendant, GR15(Food Sci. & Tech., Geneva)

Academic
Prof. (tenure-level) of Analytical Chem. (Chem., Baker Lab.)
Assoc.-Full Prof. of Economics (with tenure) (Arts & Sci.)
Asst. Prof. of Economics (tenure track) (Arts & Sci.)
Asst. Prof. in Dairy Cattle Prod. (Ag. & Life Sci.)
Asst. Profs. (tenure track) Renaissance and 18th Century Lit. (English)
Asst. Prof., Modern Art (Arts and Sciences)
Asst. Lib. II, CA2(Cat. Dept., Law Lib.)
Ext. Assoc. IV, CA6(Staff Dev., Coop Ext.)

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

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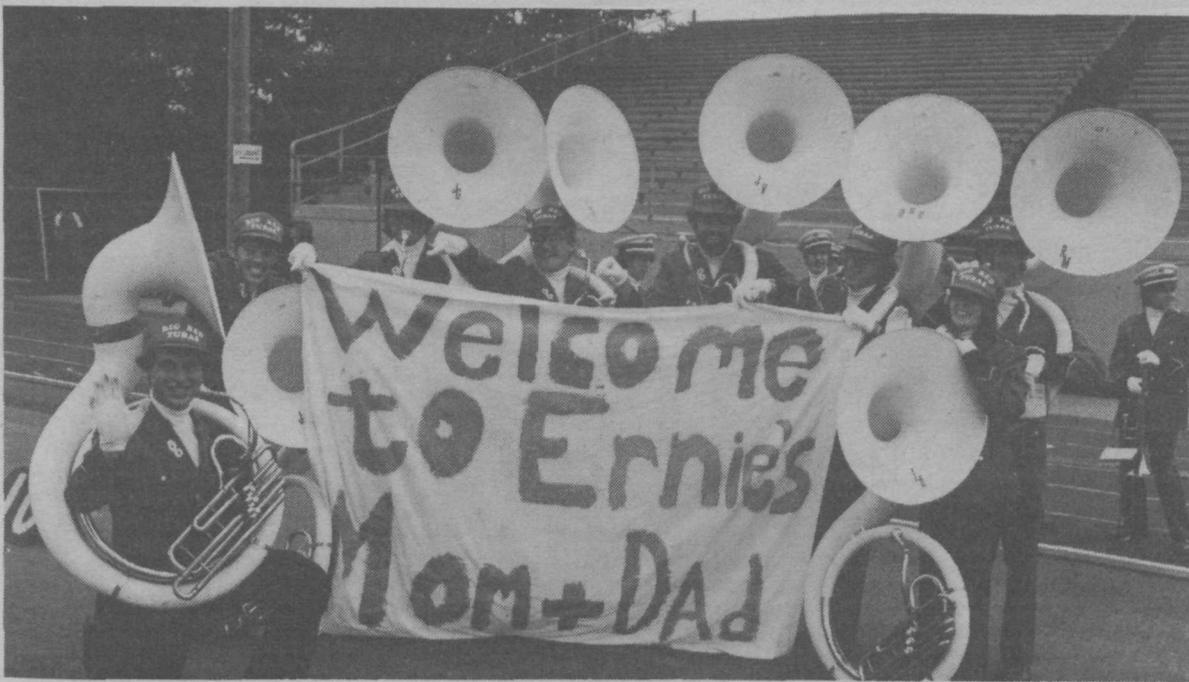
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It is the policy of Cornell University actively to support equality of educational and employment opportunity. No person shall be denied admission to any educational program or activity or be denied employment on the basis of any legally prohibited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



Ernie Block, Arts '82—kneeling, waving and smiling—and his friends in the tuba section of the Big Red Band put together a modest greeting to Ernie's parents who came down from Montreal on Saturday for the first home appearance of the Cornell football team and the Big Red Band.

Wind Power May Help Farmers

Cornell Researchers Work on Project

A novel way of using wind power to help American farmers beat the energy crunch is being explored by researchers here.

Instead of using wind to generate electricity, pump irrigation water, or grind grains, among other conventional applications, Cornell researchers are trying to run heat pumps directly with wind power.

The objective is to determine the feasibility of the idea of connecting a wind turbine mechanically to the heat pump and operating the device without using electrical energy.

Tackling this method of utilizing wind energy are Wesley W. Gunkel and D. Randy Lacey, agricultural engineers in the State College of Agriculture and Life Sciences.

"The idea is to make use of wind

energy more efficiently than otherwise possible," says Gunkel. "We are seeking a new, mechanical application of the wind energy.

What's a heat pump?

"It's a device that works much like a refrigerator for cooling," Gunkel explains. "It also is being used as a space heater for homes and office buildings."

A refrigerator removes heat from the air inside, thus cooling food or making ice. But, it does not run in reverse to raise the temperature inside the refrigerator.

The heat pump, on the other hand, works both ways. It can heat a home by extracting heat from outside air in areas where winter is not too harsh. Well water also can be used as a source of energy for space

heating.

Operated in reverse, the heat pump works as an air conditioner by expelling heat from inside the house.

By driving such a device directly with wind energy, Cornell researchers hope to cool milk and at the same time to produce hot water with heat extracted from warm milk.

"Our goal is to produce hot water this way to meet the hot water needs for dairy farms and for space heating for farm homes and buildings," Gunkel says.

Cows are milked twice a day, and hot water is needed daily for cleaning and sanitizing milk handling equipment.

Viroids Discoverer To Give 4 Lectures

Theodor O. Diener, discoverer of viroids, the smallest known agents of infectious diseases, will give four public lectures during his stay here Oct. 4 through Oct. 9, as one of the university's Andrew Dickson White Professors-at-Large.

He will give the first in the 1981-82 James Law Distinguished Lecturer Series of the New York State College of Veterinary Medicine at 4:30 p.m. Thursday, Oct. 8, in the James Law Auditorium at the Veterinary College.

His lecture, "Search for Animal Viroids," will examine the hypothesis that viroids could be linked to certain animal diseases as well as plant diseases.

He will discuss viroid contributions to animal disease processes in subacute spongiform encephalopathies, rheumatoid

arthritis and a hamster lymphoma.

He also will give three lectures Oct. 5, 6 and 7 at 2 p.m. each day in the conference room of the Veterinary College's James A. Baker Institute on Snyder Hill Road. The topics of the lectures are: "Structure and Organization of Viroids," "Replication of Viroids" and "Origin and Pathogenesis of Viroid Diseases."

A plant pathologist with the U.S. Department of Agriculture, Diener was named an A.D. White Professor in 1979. In addition to his public lectures he will meet in seminars and informally with Cornell faculty and students. He will have an office at Baker Institute and can be reached by calling 277-3044.

He is the first of five Law Lecturers to appear at the Veterinary College this academic year.

Feminist Criticism

Two-Day Symposium on Campus

Feminist literary criticism will be discussed by women faculty from several of the nation's leading colleges and universities during a two-day symposium here this Friday and Saturday.

Open to the general public, all the sessions will be in Hollis E. Cornell Auditorium of Goldwin Smith Hall. The symposium will open at 4:15 p.m., Friday, with Catherine Stimpson of Rutgers University talking on the theme "Feminist Criticism and Feminist Being."

The schedule for Saturday's activities is:

-9:15 a.m. to 11:00 a.m.; Barbara Johnson, Yale University, "My Monster/My Self: Frankenstein, My Mother, My Self, and The Mermaid and the Minotaur;" Judith Fetterley, SUNY, Albany, "Gender and Judgement in 19th Century American Fiction;" Margaret Homans, Yale University, "A Thematics of

Women and Language: Testing the Franco-American Alliance;"

-11:30 a.m. to 1 p.m.; Nancy Miller, Barnard College, "The Text's Heroine: A Feminist Critic and her Fictions;" Peggy Kamuf, Miami University, "Re-placing Feminist Criticism;"

-2:15 to 3:45 p.m.; Myra Jehlen, SUNY, Purchase, "Why Synthesis?"; Coppelia Kahn, Wesleyan University, "Excavating 'These Dim Minoan Regions: Maternal Subtexts in Patriarchal Literature;"

-Round table and discussion, 4 p.m. to 5 p.m.

The symposium is co-sponsored by the Women's Studies Visiting Scholars Program, the University Lectures Committee, the College of Arts and Sciences, the Society for the Humanities, and the Departments of Romance Studies and English.

United Way: Allocation as Tough as Collection

Volunteers Active in This Area, Too

Raising money isn't the only tough job for volunteers in the United Way of Tompkins County. Before the annual goals are set and the drives are launched and the campaigners make their rounds of workplaces to seek pledges, a select group of volunteers has the unenviable task of deciding which of the many worthy human service agencies will get funding and how much to promise.

"The problem is that the requests always far exceed what we expect we will be able to raise," says C. Arthur Bratton, a Cornell professor emeritus of agricultural economics and a member of the United Way Allocations Committee.

The process begins when the 14-member allocations committee divides into several teams, each to focus on the funding requests of two, three or four agencies. "Each team visits the agency and discusses with the staff—in great depth—their objectives, their activities and how they're proceeding," explains Bratton, who also serves as a volunteer driver for one of the 22 United Way agencies, F.I.S.H. (Friends In Service Here). "In the first round we

do not discuss budgets at all, but simply the agency's works."

Agency budgets come under close scrutiny during the second visit by the allocations team. "The agency staff members explain how much they are requesting and why," the retired professor notes, "and we raise questions and get clarifications on different points. But we give them no answer at that time."

Instead, the allocations teams put their heads together and try to balance agency plans with the real needs of the community. One of the criteria they use is a priority rating system developed for this area by another group, the 65-member panel called the Human Service Coalition. The coalition provides a five-category assessment of where the greatest needs are, comparing, for example,

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Getting a head start on the Cornell United Way Campaign, which began Tuesday, the Retiree Division reports pledges amounting to \$22,308 or 62 percent of the division's goal.  
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mental health with youth recreation or transportation for the elderly.

"In general, the United Way takes the approach that the top two priorities should receive increases if the agencies request them," Bratton says. "If they are in the middle priority our thought is that they probably will remain at the same funding level. If the needs are in the fourth or fifth priority, our approach would be to phase out the service funding or to have a decrease."

"After each team has examined the agencies, we have a general session of the allocations committee," Bratton continues. "Each team submits its report and we try to put the recommendations into an overall budget. That's when it comes down to the hard decision making."

The United Way board makes a decision on campaign goals in June, but that is preceded by what Executive Director H. Ken DeDominicis call "six months of intensive work—probably as intensive as the campaign itself." Like Bratton, most of the allocations committee members have a

"blend" of expertise in financial matters and in human service, DeDominicis notes.

The result of all that decision

making is a 1981 campaign goal of \$880,149, nearly \$50,000 more than in 1980. The Cornell community's portion of that goal is \$270,000.

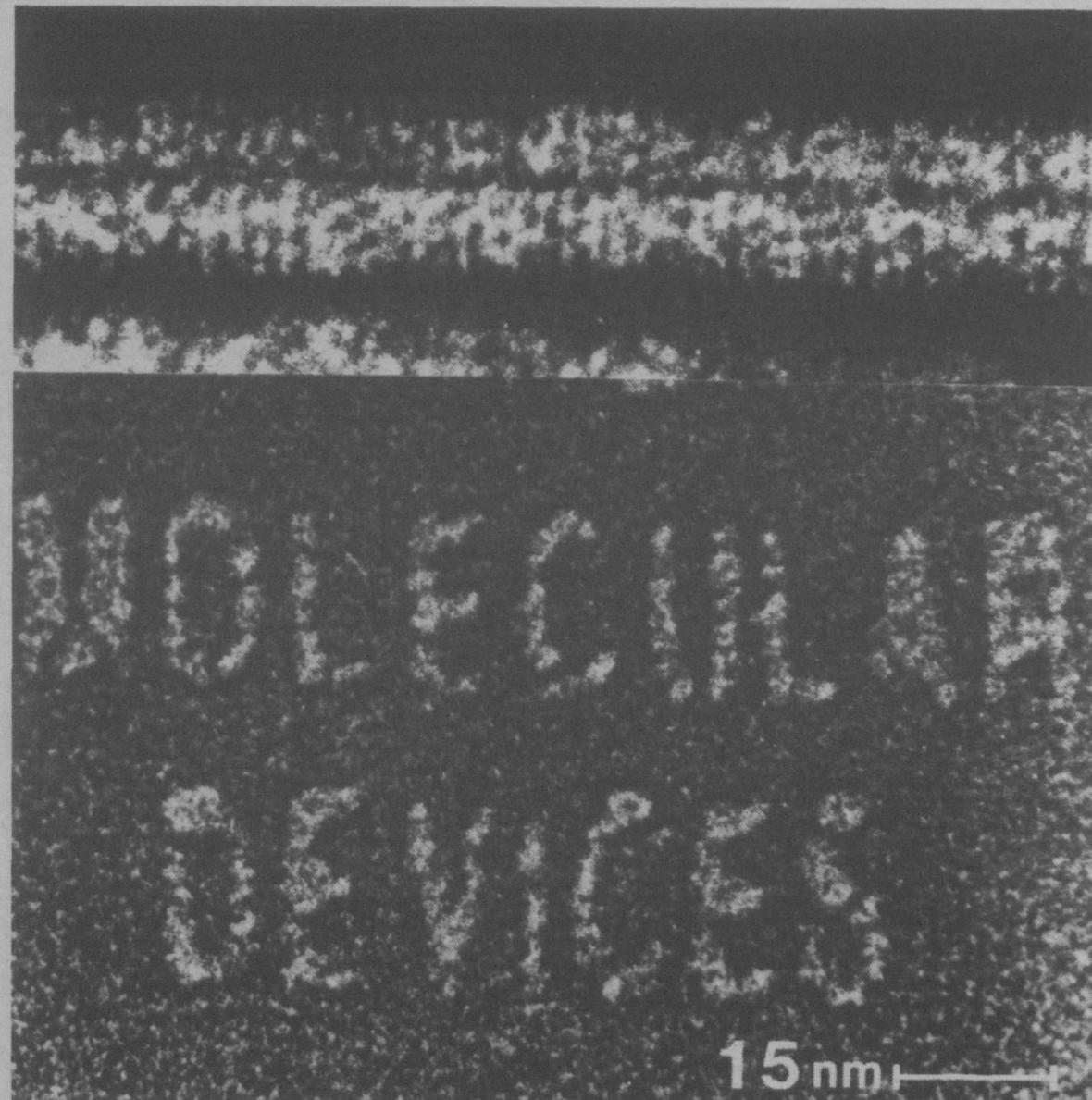


College of Human Ecology student Regina Maddock works with a youngster at the Special Children's Center, one of the 22 human service agencies funded by the United Way of Tompkins County.



More than a few fond memories of Cornell's athletic past were brought to mind at halftime on Schoellkopf Field Saturday when tribute was paid to the 18 people who had been inducted into the Cornell Athletic Hall of Fame the night before. The inductees (or their representatives) from left are: Charles (Ed) Ackerly '20, wrestling (represented by Cornell Wrestling Coach Andy Noel); Walter Ashbaugh '51, basketball; Dorothy Bateman, former director of women's physical education; Willard (Gib) Cool '16, football (represented by Terry Mallett, Cornell's Director of Athletic Public Affairs); Lynn (Pete) Dorset '50, football; Frank (Bud) Finneran '41, football and baseball; Peter Gogolak '64, football; Moses

Goldbas '39, boxing; Robert (Rip) Haley '51, football and baseball; Ned Harkness, former coach of hockey and lacrosse; John Hughes '70, hockey; Richard (Dick) Jackson '56, football, basketball and baseball; George (Lefty) James, former football coach; William Larned '94 tennis (represented by Cornell Lacrosse Coach Richie Moran); Joseph Mangan '34, track and cross country; Jose Martinez-Zorrilla '33 (waving in photo), football, fencing and lacrosse; Donald Sieja '68, fencing. Not pictured or represented in the photo was Glenn Stafford '30, wrestling.



Writing smaller than the tiny tobacco mosaic virus (above), Cornell Associate Professor of Applied and Engineering Physics Michael Isaacson and graduate student Andrew Muray demonstrated their nanolithography technique with the beam of a scanning transmission electron microscope at the Submicron Facility to etch these letters in salt crystal. Both micrographs are shown at the same magnification (1.7 million times). The ultra-high resolution lithography technique is producing the smallest man-made patterns ever reported.

Grants for Equipment Will Help 3 Programs

Undergraduate education in physiology, bioinstrumentation and analytical chemistry will be improved here with three matching grants from the National Science Foundation's Instructional Scientific Equipment Program.

The grants to three departments, totalling \$53,600, are among 235 made to colleges and universities in 1981. The NSF program has been part of the foundation's activities since 1962 and is designed to strengthen classroom, laboratory and field work experience for undergraduate students by exposing them to up-to-date laboratory instrumentation and current educational technology.

Some 1,399 proposals were reviewed by the NSF in making the 1981 awards. The three to Cornell were the most the university has received in 10 years.

Each institution must match or exceed the NSF contribution.

The Division of Biological Sciences will use an \$18,100 grant from the NSF to help purchase equipment to establish a course in cellular physiology and to complement an existing course in systems physiology. The two courses will form the core of a new undergraduate concentration in physiology in which students will learn how cells regulate themselves and neighboring cells as well as what molecules are involved in the regulatory process. Dr. Robert A. Corradino, associate professor of physical biology and physiology, will be the project director.

The School of Electrical Engineering received a \$19,380 NSF grant to help equip a modern biophysical instrumentation laboratory for electrical engineering students. Cornell's laboratory for teaching bioinstrumentation will be

upgraded and a new laboratory for bioelectric systems will be created, thus enabling engineering students to design microcomputer systems for use in biological measurement and control. Project director will be Myunghwan Kim, professor of electrical engineering.

A \$16,120 NSF award to the Department of Chemistry will be used to give undergraduate students "hands on" experience with state-of-the-art high performance liquid chromatography equipment. The liquid chromatographs are used for qualitative, quantitative and trace level analyses in basic research problems. Richard F. Porter, professor of chemistry, will be the project director.

Second Phase Study Begun in Collegetown

Joint City-University Project Progresses

An outline of work to be accomplished in Phase II of a professional study of the Collegetown area was reviewed last Friday at a public meeting of the local steering committee with the American City Corp. of Columbia, Md., which is doing the study.

The study is being funded jointly by the City of Ithaca and Cornell University. The first phase of the study concluded that the Collegetown area has a strong potential for business and residential expansion, and that it is a suitable site for a new commercial office, retail and residential development, a parking deck and a Performing Arts Center.

The steering committee is composed of representatives from the city, Cornell, the Collegetown Enhancement Association and the East Hill Civic Association.

During the second phase of the study, ACC will prepare a development program, a site plan, a financial program and a marketing strategy.

The development program will identify opportunities for private sector investment to stimulate the revitalization of Collegetown, based on market studies and financial analyses.

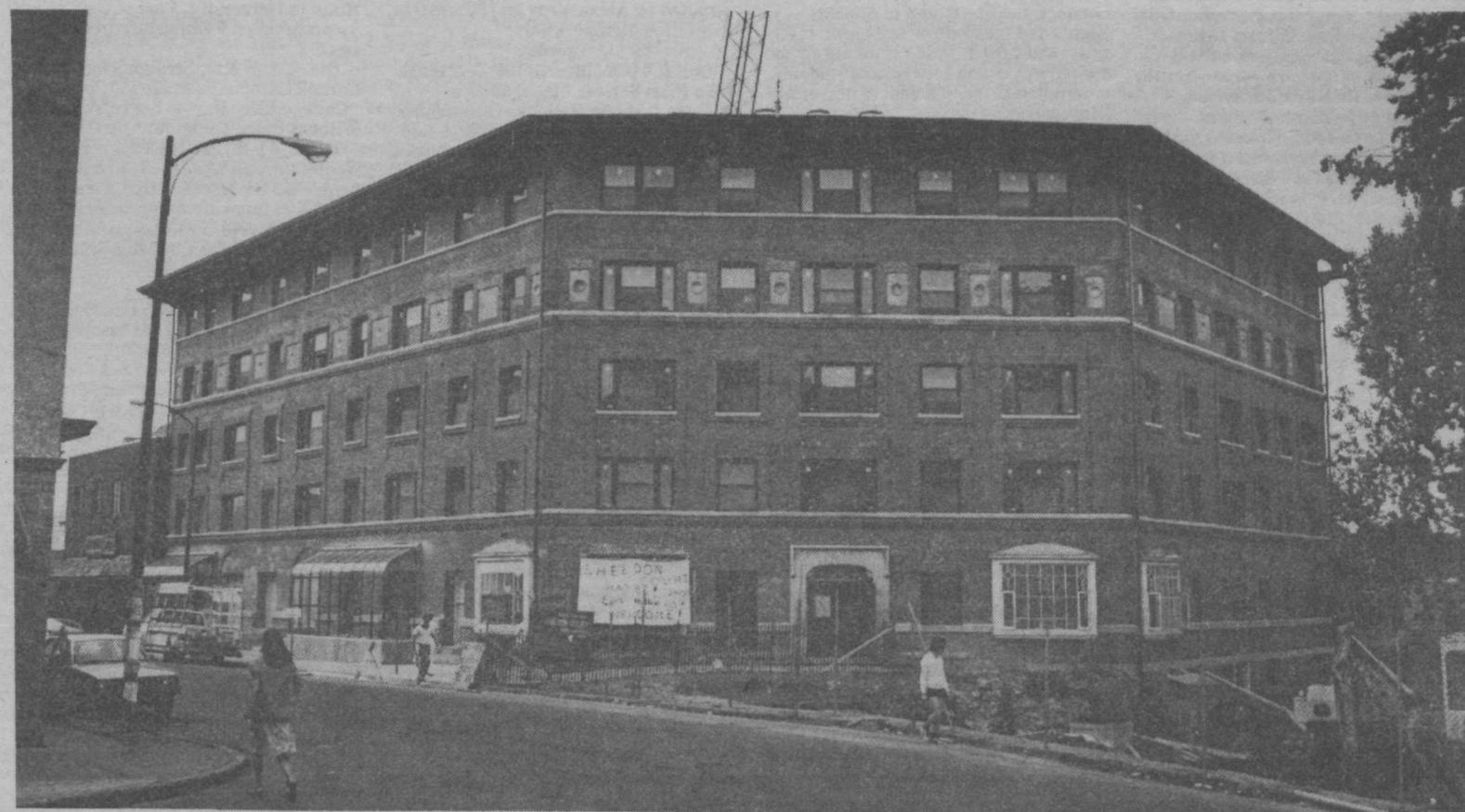
The site plan will show specific development projects in schematic design. Also to be included are traffic, parking and circulation recommendations.

The financial program will describe the feasibility of the major development projects identified in the development program. ACC will provide recommendations on outside (state and/or federal) funding sources, lenders, equity partners and structure of the financing for the project. ACC will also prepare cost/benefit analysis of public expenditures as requested by the committee.

ACC representative Michael Botge said that ACC staff is excited about this project and feel many positive financial, social and cultural benefits will accrue to the city. The Steering Committee shares this view with ACC, which is expected to complete its work in mid-November.

The project benefits to the community, as outlined by the steering committee, are:

1. Business expansion contributing increased sales tax.
2. New housing and commercial construction contributing increased property tax.



Sheldon Court, one key part of the Collegetown project, in the last phases of its renovation.

3. Collegetown parking and traffic are improved.

4. A new cultural facility that is accessible and open to the community.

5. Potential for increased conference trade by the university with commensurate public benefit in increased sales.

6. The public aspect of the Performing Arts Center will vitalize the cultural environment of the Ithaca community, generating a positive economic impact.

7. The project can act as a catalyst to the physical and economic revitalization of Collegetown.

For more than two decades, the university and the city have taken periodic "looks" at Collegetown and development plans for the area. Until fairly recently, nothing of consequence has come from these "looks," and the few changes made in the area have been primarily private, with little university or city participation.

During those same two decades, Collegetown has continued to be an

area of mixed housing, but the development of new student housing went in other directions—to North Campus for Cornell and to its new campus on South Hill for Ithaca College.

In the last two years, however, the city, the university and the East Hill community have put a new priority on a broadly based Collegetown development that will be beneficial to all three. East Hill is the site of three major Cornell renovation projects—at the Sage infirmary complex, Sheldon Court (those two already begun) and Cascadilla Hall. Two are completed and occupied now. When all three are completed, at a cost of some \$12.5 million, they will provide beds for about 500 more students than are currently housed by the university.

This not only represents a heavy investment in construction, which creates jobs, but also should result in greatly increased commercial activity in Collegetown, increased sales tax revenues for the city and some relief of the pressure to con-

vert family-occupied housing to student occupancy. At the same time, it helps Cornell meet its continuing need as a residential university to provide more attractive accommodations for its students.

These projects, coupled with the fact that the university has considered Collegetown a prime site for a \$10 million Performing Arts Center (and in fact has now designated it as the chosen site) prompted the city and university to commission the ACC study of the area.

The first phase of this study concluded that the primary block, most of which is owned by the city and the university, bounded by Cascadilla Gorge, College Ave., Eddy St. and Dryden Road, is suitable for a multi-use development, increased parking capacity and a Performing Arts Center, and that the parking demands generated by these uses complement one another.

Preliminary discussions between federal funding agencies and ACC indicate that the city would be eligible for an Urban Development

Action Grant to be used in part to amortize the parking deck. ACC will also prepare a project cost benefit analysis to determine the economic impact this project will have on the city. It will be in fact only after this study is complete and a financial program outlining all costs associated with the project that any commitment from the city will be asked.

At this point there has been no decision regarding the financing of a parking deck, although several strategies are being pursued. In fact, the cost of a parking deck has not yet been determined. This is all part of Phase II of the contract with ACC as it relates directly to the development program.

Steering committee members agree that the success of this project depends on a close working relationship among all the parties. Several meetings have been held to discuss the project and a formal framework for cooperation is being investigated.

Egypt Deals in Many Ways with Population Problem

Women's rights, farm tractors, and old age pensions are as important as contraception in Egypt's approach to solving its population problem.

During an interview here, Haifaa Shanawany, director of the Research Office with the Egyptian government's Population and Family Planning Board, said her country's program against overpopulation is a multifaceted one. The problem is intensified by the over-concentration of the Egyptian population on 5 percent of the total country because the rest of the country is desert.

She said her country's recently introduced Population Development

Program takes into consideration such things as agricultural mechanization, better health services, reducing infant mortality, increasing educational opportunities, better work for women and redistribution of the nation's population between rural and urban areas.

Shanawany and two colleagues from the Family Planning Board, Atef Khalifa and Hussein Abdel Aziz, spent five weeks in August and September at Cornell's International Population Program analyzing past data of a Rural Fertility Survey and a contraceptive prevalence survey, and designing various research tools for a new Rural Fertility Survey for future analysis.

of the impact of a large scale project entitled Population and Development.

Shanawany, who has been with Egypt's family planning program since its inception in 1965, earned a doctorate at Cornell in Sociology and Demography in 1967 under J. Mayone Stycos, director of Cornell's International Population Program.

Since her return to Egypt in 1967, Shanawany said her country's approach to family planning has evolved far beyond distributing birth control methods and has developed into a comprehensive look at the many causes of higher birth rates.

The "development" approach

which is considered one of the most sophisticated programs in the world has been fathered by Dr. Aziz Binyard, chairman of the Population and Family Planning Board.

Shanawany said that in the 1970s he was among the first proponents of the developmental approach to family planning and the necessity of accompanying family planning services with socio-economic development projects.

The approach developed in realization that the more babies die, the more women want children to insure the survival of at least one. Poor families also want children as old age insurance. For this reason Egypt is introducing pensions for

the elderly poor. There is a movement to mechanize farming to get the women and children out of the fields but also to engage them in agro-industry to stay in rural areas. Shanawany said it is easier for women to work in the fields with a number of children following close behind than at other jobs. Education for women, particularly rural women, means jobs that provide some promise of future economic security and also make it less attractive to have many children.

These concerns and many more are taken into consideration in Egypt's population goals.

formally on the floor on foam-rubber pads and the performers appear in blue jeans and sweaters.

New York Times critic John Rockwell recently wrote: "The Chamber Music Society of Lincoln Center puts on exciting concerts with such regularity that writing reviews of them is like reviewing an endless succession of gorgeous sunsets: you run out of adjectives."

Monday

Oct. 5, 8:15 p.m. *Bailey Hall. Faculty Committee on Music Concert: Yo-Yo Ma, cello, and Emanuel Ax, piano. Beethoven sonatas.

Saturday

Oct. 10, 8:15 p.m. Bailey Hall. Cornell Symphonic Band conducted by Marice Stith. Works of Creston, Grainger, Hockett, others.

Religion

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

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

Sunday

Oct. 4, 11 a.m. Sage Chapel. Inter-religious Convocation: Huston Smith, Professor of Religion and Philosophy, Syracuse University.

Wednesday

Oct. 7, 5 p.m. Anabel Taylor One World Room. Kol Nidre Dinner. Call Hillel Office to make reservations.

Oct. 7, 6:30 p.m. Statler Auditorium. Kol Nidre Conservative Service.

Oct. 7, 6:30 p.m. Anabel Taylor Edwards Room. Kol Nidre Orthodox Service.

Oct. 7, 7 p.m. Anabel Taylor Auditorium. Kol Nidre Reform Service.

Thursday

Oct. 8, 9 a.m. & 5:15 p.m. Statler Auditorium. Kol Nidre Conservative Service.

Oct. 8, 9 a.m. & 5:15 p.m. Anabel Taylor Edwards Room. Kol Nidre Orthodox Services.

Oct. 8, 10 a.m. & 5:15 p.m. Anabel Taylor Auditorium. Kol Nidre Reform Services.

Sunday

Oct. 11 a.m. Sage Chapel. Inter-religious Service: Warner Traynham, Episcopal Chaplain, Dartmouth College, Hanover, NH.

Mon. through Fri., 12:15 p.m. Anabel Taylor G-19. Catholic Mass.

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

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

Atomic & Solid State Physics: Solid State Seminar: "Synchrotron X-ray Scattering Studies of Long-Range Order

and Phase Transitions in Two-Dimensional Systems," David Moncton, Bell Laboratories, 4:30 p.m. Tuesday, Oct. 6, 700 Clark Hall.

Atomic & Solid State Physics: Theory Seminar: "Monte Carlo Simulations of RKKY Spin Glasses," L. Walker, Bell Laboratories, 1:15 p.m. Thursday, Oct. 8, 701-702 Clark Hall.

Biochemistry: "Molecular Mechanism of Promoter Selection by RNA Polymerase," Cheng-Wen Wu, SUNY at Stony Brook, 4:30 p.m. Friday, Oct. 2, 204 Stocking Hall.

Biochemistry: "Recent Studies on Sickle Cell Hemoglobin," Stuart Edelstein, 12:20 p.m. Monday, Oct. 5, 105 Riley Robb.

Campus Life: "The Accommodations for the Disabled at Cornell University," panel and general discussion, 9 a.m. Thursday, Oct. 1, Elmhurst Room, Willard Straight Hall.

CAPE: "Output, Income, and Rank in Hierarchical Firms," Sherwin Rosen, University of Chicago, 4 p.m. Thursday, Oct. 1, 498 Uris Hall.

Center for Applied Mathematics: "Equipartition of Energy for Higher Order Differential Equations," James Sandefur, Georgetown University and Cornell, 4 p.m. Friday, Oct. 2, 165 Olin.

Chemical Engineering: "Particle Motions Near a Deformable Fluid Interface," L. G. Leal, California Institute of Technology, 4:15 p.m. Thursday, Oct. 1, 145(A) Olin Hall.

Ecology and Systematics: "Ithaca's Native Field Flora," Peter Marks, 4:30 p.m. Wednesday, Oct. 7, Langmuir Penthouse.

Food Science: "Ultrafiltration: Principles and Practice," Barry R. Breslau, Romicon, Inc., 4:30 p.m. Tuesday, Oct. 6, 204 Stocking Hall.

Materials Science and Engineering: "From Elementary Point Defects to Point Defect Clusters in Semiconductors," J. W. Corbett, SUNY Albany, 4:30 p.m. Thursday, Oct. 1, 140 Bard Hall.

Mechanical & Aerospace Engineering: Title to be announced, Thomas Gold, 4:30 p.m. Tuesday, Oct. 6, 282 Grumman.

Microbiology: "Physiological Ecology of Planktonic Oscillatoria," A. Konopka, Purdue University, 4:30 p.m. Thursday, Oct. 1, 124 Stocking Hall.

Neurobiology and Behavior: "Relationships Between Sensory Input and EEG Arousal in the Visual System of the Toad," Peter Laming, Queen's University, Belfast, N. Ireland, 12:30 p.m. Thursday, Oct. 1, Langmuir Penthouse.

Neurobiology and Behavior: "The Optics of Animal Eyes," Michael Land, University of Sussex, England, 4:30 p.m. Monday, Oct. 5, Seminar Room, 401 Warren Hall. Professor Land will also speak on "The Visual Control of Flight in Insect Courtship," at 12:30 p.m. Tuesday, Oct. 6, Langmuir Penthouse.

Natural Resources: "Haiti: Some Constraints to Development in Natural Resources Conservation," Jacques G. Neptune, 4 p.m. Thursday, Oct. 1, 304 Fernow Hall.

Nutritional Surveillance: "Recent Progress in Nutritional Surveillance in Developing Countries," John Mason, 12:20 p.m. Thursday, Oct. 1, 100 Savage Hall.

Operations Research: "Stochastic Comparison of Single Server Queues," N.U. Prabhu, 4:30 p.m. Tuesday, Oct. 6, 305 Upson.

Physiology: "Neuroethology of an Invertebrate Escape Behavior," J. Camhi, 4:30 p.m. Tuesday, Oct. 6, G-3 Vet. Res. Tower.

Plant Biology: "Induction of Flowering in *Pharbitis nil*," Vivian Owens, 11:15 a.m. Friday, Oct. 2, 400 Plant Science.

Plant Pathology: "Diagnosis of Viroid Diseases by Nucleic Acid Hybridization," T. O. Diener, USDA, 4:30 p.m. Tuesday, Oct. 6, 404 Plant Science Building.

Pomology: "Viticulture in Japan," Mikio Sato, University of Tokyo, 11:15 a.m. Monday, Oct. 5, 114 Plant Science Building.

Psychology: "Genetics and Schizophrenia," Leo Kamin, 3:30 p.m. Friday, Oct. 2, 202 Uris Hall.

Statistics: "Robust and Adaptive Estimation in Heteroscedastic Linear

Models," Raymond J. Carroll, University of North Carolina at Chapel Hill, 3:15 p.m. Wednesday, Oct. 6, 105 ILR Conference Center.

Toxicology: "Advantages and Hazards of the Use of Waste Materials in Agriculture," Donald J. Lisk, 12:15 p.m. Friday, Oct. 2, NG02 MVR.

Vegetable Crops: "Effects of Between-Row Spacing, Cultivation and Genotype on Growth and Yield of Black Beans," B. Kahn, 4:30 p.m. Thursday, Oct. 1, 404 Plant Science Bldg.

Sports

Friday

Oct. 2, 4:30 p.m. University Golf Course. Men's Varsity Cross Country-Army.

Oct. 2, 7:30 p.m. *Schoellkopf. Men's Lightweight Football-Army.

Saturday

Oct. 3, 10 a.m. Schoellkopf. Women's Varsity Field Hockey-Yale.

Oct. 3, 1 & 3 p.m. *Schoellkopf. Men's Varsity Soccer. "Cornell Classic."

Sunday

Oct. 4, 1 & 3 p.m. *Schoellkopf. Men's Varsity Soccer. "Cornell Classic."

Tuesday

Oct. 6, 6 p.m. Helen Newman. Women's Volleyball-Binghamton and Cortland.

Oct. 6, 7:15 p.m. Schoellkopf. Women's Varsity Field Hockey-Ithaca College.

Oct. 6, 8:45 p.m. Schoellkopf. Women's JV Field Hockey-Ithaca College.

Friday

Oct. 9, 2:30 p.m. Schoellkopf. Women's Varsity Field Hockey-Harvard.

Oct. 9, 3:30 p.m. Cascadilla Courts. Women's Tennis-Army.

Oct. 9, 4:30 p.m. Golf Club Course. Men's Varsity Cross Country-Harvard.

Oct. 9, 7:30 p.m. *Schoellkopf. Men's Varsity Soccer-Harvard.

Saturday

Oct. 10, 10 a.m. Schoellkopf. Men's Freshman Football-Pennsylvania.

Oct. 10, 1:30 p.m. *Schoellkopf. Men's Varsity Football-Harvard.

Theater

Thurs. through Sat.

Oct. 1-3, 8:15 p.m. *Straight Theatre. Theatre Cornell production: Athol Fugard's "Boesman and Lena," directed by guest artist Marshall Oglesby, Resident Director of the off-Broadway Circle Repertory Theatre.

Thurs. through Sat.

Oct. 8-10, 8:15 p.m. *Straight Theatre. Theatre Cornell production: Athol Fugard's "Boesman and Lena."

Graduate Bulletin

Late initial course registration and/or course additions are still possible upon payment of \$10 processing fee. (Deadline for registration was Sept. 25.)

Oct. 23 is the deadline for dropping courses or changing the grade option.

Graduate students whose employment is other than a teaching assistantship and is in excess of 10 hours per week (and is not contributory toward degree) or 20 hours per week (and is contributory) may be eligible for proration of tuition. Applications are available at the Information Desk, Sage Graduate Center.

Doctoral candidates who have completed three years of residence, taken their 'A' Exam and are not taking courses may be eligible for a special tuition rate of \$890 a semester. Check with the Graduate School for details and application forms.

Graduate students planning doctoral dissertation research abroad in modern foreign languages and related area studies should consider the Fulbright-Hays Doctoral Dissertation Research Abroad Training Grant Program, administered by the Department of Education. Graduate students may be funded for six months to a year of independent research in non-Western European countries having diplomatic relations with the United States. Grant provisions in-

clude: round-trip transportation, excess baggage allowance, maintenance and dependents' allowances, project and local travel allowances, health and accident insurance, and tuition and fees at foreign institutions. Students applying for dissertation research grants in East Asia, Eastern Europe and Russia, Latin American, South Asia, and Southeast Asia should request information from the appropriate Foreign Area Program in Uris Hall. Applicants to other non-Western European countries (e.g. Africa, Middle East) should contact Jeanne Bowen, 114 Sage Graduate Center, for information. Applications should be available in early October.

REMINDER: The deadline for receipt of applications and supporting credentials for the Fulbright-Hays Grants for Graduate Study Abroad Program (administered by IIE) is Friday, Oct. 2. Applications must be submitted to the Fellowship Office, 116 Sage Graduate Center, by 4:15 p.m.

Additional information about the awards listed below may be obtained from the Fellowship Office or from your graduate faculty representative.

Nov. 1: American-Scandinavian (ASF) Awards for Study in Scandinavia — Several types of grants are available for graduate study and research in Scandinavian countries. Applicants must know the country's language because no awards will be made for study at English-language institutions nor for study of Scandinavian languages. The ASF also offers a limited number of awards to Scandinavians for study/research in the U.S.

Nov. 1: George C. Marshall Memorial Fund in Denmark — This award provides approximately \$6,000 for a maximum of 12 months of academic study or research; smaller grants for programs of shorter duration are also available.

Nov. 1: National Institute of Health (NIH) Health Sciences and Computer Technology Grants — Domestic educational institutions with a well-established computer facility may apply for training grants to promote the integration of computer technology into all phases of clinical medicine. Award recipients must be U.S. citizens, nationals, or permanent residents. Preference will be given to physicians but training for other post- and pre-doctoral candidates in fields related to medicine is possible.

Nov. 1: New York State Assembly Graduate Scholars Program — This provides a stipend of \$7,500 covering one semester and a summer. Assignments are working with Assembly leaders, standing committees, or research offices. Applicants must be residents of N.Y. or attend a university in N.Y. and must be matriculated in, or have completed a graduate degree program. Applications are available at the Fellowship Office.

Nov. 1: New York State Health Planning Commission Fellowships/Grants — Pre- and post-doctoral, full- and part-time fellowships may be applied for in any aspect of health. Training must be at an institution within N.Y. Funds may be requested for: stipends, supplies, travel, salary support, and technical assistance. Research grant proposals may be submitted in these priority areas: preventive health care, development/testing of vaccines for communicable diseases, alcohol/drug abuse, mental retardation/illness, public/consumer protection, and oral/dental research. Applications are available at the Fellowship Office.

Nov. 1: Sigma-Xi Grants-in-Aid of Research — Awards provide from \$100 to \$1,000 to support scientific research in any field. Grants are not normally made for expenses of publication, salary, tuition, or travel to meetings. Applications are available at the Fellowship Office.

Nov. 2: Social Science Research Council Fellowships for International Doctoral Research — This fellowships provides maintenance allowance, transportation, insurance, and a research allowance for 6 to 24 months of dissertation research in the social sciences or humanities. The following areas are covered: Africa, Asia, Latin America and the Caribbean, the Near and Middle East, and Western Europe. Applicants must be enrolled at universities in the U.S. or

Canada. There are no age or citizenship restrictions.

CIVITAS

HELP NEEDED IN THE ITHACA SCHOOLS: Requests received this week from four elementary schools located within walking distance of the campus or conveniently close to city bus routes offer varied opportunities to work with young children between the ages of six and eleven: 1) Resource room teachers need aides to help learning disabled children on a small group or one-to-one basis in reading, spelling, writing and math; 2) Sports coaches/helpers are sought over the lunch hours, 11-2, and there is a special request for a woman to coach girls' basketball, Wed., Thurs. or Fri., when gym is free; 3) Different programs involving special projects need helpers to set up and supervise in such interest areas as science, cooking and language arts. One such program is a buddy program in which kindergarten and 3-4th graders work together from 1:30-3:30 on Wed. aft. ; 4) Downtown elementary school science program seeks volunteers with general knowledge of science to a) work with small group of children on science projects for at least 2 hours, between 9-2:30, once a week for the semester, or b) supervise the science room from 11:25-12:45 any day for walk-in students working on their own interests, or c) share a specialty on a one-shot basis or as an ongoing project over a few weeks. Secondary schools are larger and need more time to sort out their needs. So far we have received requests for help in supervising an art room and assisting in small classes studying French and German. Ithaca High School is in need of clerical help in the English Department any day between 8-2 p.m.

VISUALLY HANDICAPPED ELDERLY WOMAN: Seeks volunteer to take her for walks downtown in the morning before noon or between 1:30-5 p.m. She has recently had a pacemaker inserted and would like to build up endurance gradually through exercise.

4H PROGRAM IN LOW-INCOME HOUSING PROJECT: Seeks volunteer to assist with sports, especially touch football, Mon. and Wed. aft. from 3-5:30 p.m.

FRIENDS FOR FOREIGN STUDENTS: Volunteers sought to become companions to foreign students enrolled in the Intensive English Program at Cornell. You can provide these visitors with an opportunity to practice English in a non-threatening situation and help them understand and adapt to Cornell and the United States. The schedule and activities you share can be by mutual agreement.

CENTER FOR DELINQUENT TEENAGE GIRLS: Is seeking tutors in areas of math, English, the sciences, geography and history, during homework hours, 5-7 p.m., for residents trying to pass high school equivalency exams. Commitment of one semester's help required. Car leaves Anabel Taylor Hall Tues. and Thurs. aft. at 4:30 p.m. and returns at 7:30 p.m.

CHILDCARE PROVIDERS SOUGHT FOR MEETINGS OF PROBLEM-SOLVING SUPPORT GROUP FOR ABUSIVE PARENTS: Group meets every Tues. morning, 10-12 noon, in downtown church. Helpers needed immediately to care for 1-5 children between the ages of 1-4 years. Indoor facility and toys provided, and your help will be recognized by a letter of appreciation and recommendation at the end of the semester.

REFUGEE ASSISTANCE PROGRAM: Would like to locate volunteers with knowledge of electronics or data processing to help five recently arrived refugees enrolled in BOCES courses. The task involves providing help in basic English and in special languages and concepts of electronics and data processing. The schedule, however, can be flexible, and one two-hour session per week should be sufficient.

YOUTH PROGRAMS NEED HELP WITH SWIM CLASSES: Volunteers with WSI are sought to assist with classes for 1) Preschoolers, Mon. and Wed. or Tues.

Calendar

and Thurs. mornings, 9-11 a.m., at the Ramada Pool downtown; and 2) After-School Program, Mon. and Wed. or Tues. and Thurs. afts, 3:30-5 p.m. at the Sheraton Pool. An opportunity to renew your WSI certification.

RIDING FOR THE HANDICAPPED: Program will probably start up again at the Cornell stables the first week in October. Volunteers are welcome as helpers on Saturday afternoons between 1:45-3:45 p.m.

BLIND TC3 STUDENT SEEKS READERS: For courses in literature, drug studies and social psychology. You can help directly during the evening or you can read on a tape during the day at your convenience, for as much time as you have to give.

DUNGEONS AND DRAGONS: Downtown after-school program seeks helpers to work from 3-5:30 p.m. any weekday, but particularly Mondays and Tuesdays. Many activities, but volunteer to help 8 and 9 year olds play Dungeons and Dragons is especially needed.

NURSERY SCHOOL VERY CONVENIENT TO CAMPUS SEEKS ASSISTANCE: Either mornings (8:45-11:45 a.m.) or afternoons (12:45-3:45 p.m.), Mon. to Fri. Especially needed are volunteers who speak Arabic or Spanish. This is a popular opportunity due to its convenient location.

NEWSLETTER EDITOR AND GRAPHIC ARTIST NEEDED: CIVITAS has two opportunities for volunteers interested in gaining practical experience in communication arts and adding to their portfolios. Come to CIVITAS for more information.

TO OFFER YOUR HELP, COME TO CIVITAS, 125 Anabel Taylor Hall, open Mon., Wed. and Fri., 9-3; Tues. and Thurs., 10-2.

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

NATIONAL SCIENCE FOUNDATION, US-JAPAN COOPERATIVE EARTHQUAKE RESEARCH PROGRAM - STEEL BUILDING RESEARCH

The Earthquake Hazards Mitigation (EHM) Program of the National Science Foundation's Division of Civil and Environmental Engineering, in cooperation with the Ministry of Construction (MOC) of Japan, will continue to provide support over a three-year period (October 1981 through September 1984) for experimental research on building structures using large-scale testing facilities.

Support for FY 82 will be limited to research on steel structures. Future announcements will be made for FY83 and FY84 technical areas.

The purpose of this Announcement is to encourage research proposals from U.S. researchers involving cooperation with Japanese scientists/engineers and directed at meeting the research objectives of the program.

The principal objective of this joint U.S.-Japan Program is to give U.S. and Japanese engineers and scientists access to seismic experimental facilities available in both countries, and to improve seismic safety practices through cooperative studies to determine the relationships among small-scale tests, full-scale tests, and analytical studies.

Proposed work requiring close collaboration of Japanese investigators and complementing work done in Japan should be coordinated between the U.S. and the Japanese counterpart investigators involved prior to submission of proposals. Proposals will be evaluated independently by the supporting agency (i.e., NSF or MOC) in accordance with its normal procedures.

The program provides support for salary, equipment, materials, travel,

etc. for participation of U.S. scientists. Support for Japanese participation is provided by Japanese sources.

Proposals requesting support for work on steel building research to be initiated during Fiscal Year 1982 must be submitted to NSF no later than February 1, 1982. Future announcements will be made for FY83 and FY84 technical areas.

For additional information, contact the Office of Sponsored Programs, 123 Day Hall.

KELLOGG NATIONAL FELLOWSHIP PROGRAM

W.K. Kellogg Foundation invites nominations and applications for the 1982 Kellogg National Fellowship Program. The Program seeks individuals in the early years of their professional careers, interested in developing creative responses to social needs and concerned with broadening their leadership skills and abilities.

A primary aim of the Kellogg National Fellowship Program is to help individuals who hold academic, practitioner, or administrative positions on the staffs of selected institutions and organizations to emerge as leaders who are capable of addressing important social issues at local, national, and international levels - complex issues which cut across stratas of disciplines and professions.

Awards of up to \$30,000 each will be made in behalf of 50 outstanding people. They then will carry out non-degree, interdisciplinary, self-directed activities to expand their personal horizons beyond the confines of their chosen profession.

Awards cannot be made for research.

Applicants are asked to complete an application, including a statement of personal and professional goals and an outline of their proposed self-directed activity, and are required to provide two letters of reference. Based upon the application and letters of reference, candidates may be asked to appear for a personal interview at the Kellogg Foundation's expense. A selection committee appointed by the Foundation will determine recipients. Candidates will be notified of the committee's decisions by March 15, 1982. There will be an annual review of each Fellow's progress in the program.

Completed applications and all institutional endorsements and letters of reference (which may be mailed separately) must be postmarked by November 25, 1981. Completed applications and any requests for additional information and/or applications should be directed to: Mr. Edward O'Neil, Program Assistant, W. K. Kellogg Foundation, 400 North Avenue, Battle Creek, Mich. 49016.

1982-83 FULBRIGHT SCHOLARS-IN-RESIDENCE

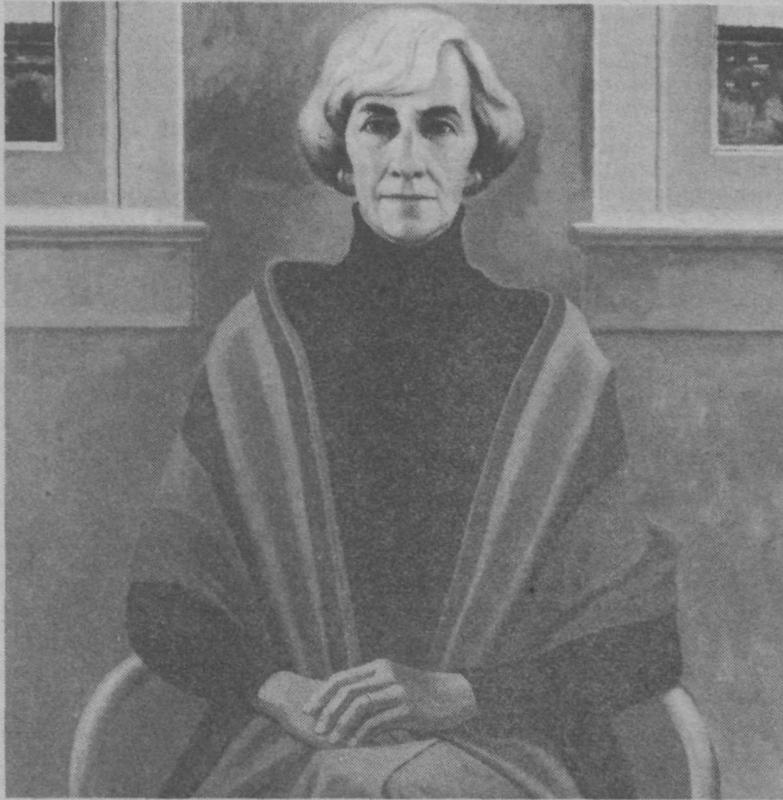
The Fulbright Program has invited American colleges and universities to submit proposals to bring foreign scholars to lecture in the United States during 1982-83.

The scholars from abroad will: teach regular courses, participate in seminars and symposia, serve as consultants in the development of new courses or research. Most visiting professors will offer courses in international studies programs, but the Council will consider proposals in any discipline.

Participating countries are: Africa (5 awards), American Republics (10 awards), East Asia and the Pacific (10 awards), Near East, North Africa and South Asia (10 awards), Eastern Europe (20 awards), USSR (25 awards), and Western Europe (10 awards).

Institutions should submit a detailed application describing the assignments and special activities of the scholar. They may ask the Council to recruit suitable candidates or name a scholar or scholars to whom they would like to offer an appointment. Further information and application forms may be obtained from designated program officers.

Appointments are for one quarter, a semester or the full 1982-83 academic year. Funding for grants to cover international travel, maintenance stipends of \$45 or \$50 per day and basic medical insurance will be provided by the government agency responsible for administration of the Fulbright program.



This oil on canvas portrait of Elizabeth Austin is on view at the Johnson Museum as part of the "Art Department Faculty Exhibition." The painting is by Professor Emeritus Kenneth W. Evett. Mrs. Austin is the wife of William Austin, the Goldwin Smith Professor of Musicology.

Quality and specificity of the proposal, institutional distribution, previous experience in the U.S. (preference for scholars who have not studied or taught in the U.S. within the past four years), and supplemental support.

For further information, contact the Office of Sponsored Programs, 123 Day Hall.

FULBRIGHT TEACHER EXCHANGE PROGRAM

College and university faculty, as well as elementary and secondary school teachers are eligible to apply for teaching positions abroad. Applicants must be U.S. citizens, hold a current full-time teaching assignment, and have three years of full employment in their subject field at the level of the position for which application is being made. It is anticipated that Canada, Denmark, France, Federal Republic of Germany, New Zealand, Switzerland, and the United Kingdom will participate in the program with the United States in 1982-83. There will be approximately 150 exchanges with the United Kingdom, 25 with Germany, 20 with France, 15 with Canada, and one each with Denmark and Switzerland. There are approximately four American applicants for each available exchange with the United Kingdom, and chances for placement are much greater with Germany and France. The terms of awards for each teacher exchange program vary from country to country. Maintenance allowances, when provided, are paid in the currency of the host country and are based on the cost of living in that country. Grants for teaching abroad are subject to U.S. Federal Income Tax. For application materials, contact: Teacher Exchange Branch, Division of International Services and Improvement, International Education Program, D.E., Washington, D.C. 20202 (202) 245-9700.

SOCIAL SCIENCE RESEARCH COUNCIL

The Social Science Research Council has set a November 2 receipt deadline for applications for Fellowships for International Doctoral Research. Fellowships are offered for doctoral dissertation research in the social sciences and the humanities to be carried out in Africa, Asia, Latin America, and the Caribbean, the Near and Middle East, or Western Europe. Applicants must have completed all requirements for the Ph.D. except the dissertation by the time

the fellowship is activated. The fellowships support 9-18 months consecutive months of field research in the relevant area. Awards may include maintenance stipends and transportation expenses for the fellow and financial dependents, health insurance for the fellow and dependents, and a research allowance.

Request application materials from: S.S.R.C., Fellowships and Grants, 605 Third Avenue, New York, N.W. 10158 (212) 557-9500. Fellowships are awarded for the following areas:

(1) Africa south of the Sahara, with particular attention given to proposals for research in disciplines which have been underrepresented in African studies, such as sociology and economics. (2) Asia - for research to be carried out in one or more countries in East, Southeast, and South Asia, except for India and Pakistan. (3) Latin America and the Caribbean, with particular attention given to proposals for research in disciplines from which few applications have been received in the past, such as art history, demography and population studies, drama, economics, and literature. Similarly welcomed are proposals for research on geographic areas that have received limited research attention, such as Cuba, other Caribbean countries, and Central America. (4) Near and Middle East - for the area including North Africa, the Middle East, Turkey, Iran, and Afghanistan. Research projects must be concerned with the time period since the beginning of Islam. (5) Western Europe, with applications particularly encouraged from disciplines in which relatively less attention has been devoted to Western Europe such as anthropology, economics, social psychology, and sociology. Also encouraged is research on problems of public policy common to Western Europe and North America, particularly urban and regional problems, as well as research on relatively neglected geographical areas of Europe, such as the Low Countries, Portugal, Scandinavia, Spain, and Switzerland.

DEADLINE REMINDERS

PHS
November 1, 1981, receipt date at the Agency for all New applications.

NATIONAL SCIENCE FOUNDATION
Research support in the computer sciences - November 2.

The Office of Sponsored Programs announces the following new grants and contracts for the Ithaca and Geneva units of the University, during the month of July 1981.

A.C. Albrecht, CHEM: Basic Photoelectric Studies in Organic Condensed Phase. DHHS, One Year, \$83,847.

L.D. Albright, AGENG: Greenhouse Control Equipment for Energy Conservation. NYS, Two Years, \$50,000.

D.F. Antczak, MICRO-VET: Comp Studies of Preg and Histocompatibility. DHHS, One Year, \$57,793.

D.G. Ast, MATSCI: Investigation of Silicon Defects. JPL, One Year, \$20,000.

R.C. Baker, POULSCI: Graduate Fellowship for Patricia Wong Gossett. AMER EGG BD, One Year, \$5,200.

W.A. Bassett, GEOSCI: Olivine-Spinel Phase Transformation Mechanisms MgFe... NSF, Three Years, \$7,000.

B.W. Batterman, CHESS: Second National Conference on Synchrotron Radiation. NSF, Six Months, \$5,400.

D.H. Beermann, ANSCI: An Investigation of Factors Affecting Emulsion Stability. HEBREW NTL: One Year, \$14,067.

I. Bernstein, MATH: Topology. NSF, Two Years, \$90,800.

K.W. Beyenbach, BIOSCIPHYS: Sodium Transport in Isolated Perfused Distal Tubules. DHHS, One Year, \$32,259.

J.M. Blakely, MATSCI: Initial Stages of Oxidation of Metals & Alloys. DOE, One Year, \$98,500.

R.G. Bland, ORIE: Studies in Linear Programming. NSF, Three Years, \$37,000.

S.E. Bloom, POULSCI: Chick Embryos for Detecting Environmental Mutagens. DHHS, One Year, \$25,537.

W.S. Bowers, ENTOM-G: Juvenile Hormone Antagonism. NSF, Three Years, \$85,900.

U. Bronfenbrenner, HDFS: Comparative Ecology of Human Development. DHHS, One Year, \$71,073.

E.B. Brothers, E&S: Emergency Support for Cornell Ichthyology Collection. NSF, One Year, \$42,315.

D.G. Brumberg, LIBR: New York Historical Resources Historical Res Survey. GSA, One Year, \$88,846.

J.M. Camhi, NB&B: Ethological Aspects of the Cockroach's Escape. NSF, Three Years, \$58,963.

S.G. Campbell, MICRO-VET: Intraphag Killing of Salmonella by Lipos-Encaps Antibiot. USDA, Three Years, 102,946.

A. Casarett, GRAD SCH: Indian Education Fellowship Program. ED, One Year, \$21,850.

A.P. Casarett, GRAD SCH: NSF Graduate Fellows. NSF, Five Years, \$598,600.

L.E. Chase, ANSCI: Dry Matter Preservation, Temperature Changes and Chemical. BEACON MILL, Sixteen Months, \$9,680.

G.F. Combs, POULSCI: Factors Affecting the Utilization of Methionine Hydroxy. MONSANTO, Two Years, \$48,400.

G.F. Combs, POULSCI: Role of Selenium in Pancreatic Function. DHHS, One Year, \$58,021.

H.D. Craft, NAIC: National Astronomy & Ionosphere Center. NSF, One Year, \$315,000.

P.R. Dawson, MECHAERO: Strain-Dependent Viscoplastic Primary Forming Models. NSF, One Year, \$43,587.

R.I. Dick, ENV: Basic Physical Properties of Pollution Control Residues. EPA, Two Years, \$142,500.

W.B. Duke, AGRON: Weed Control in Agronomic Crops. ICI, One Year, \$500.

R. Dyson-Hudson, ANTHRO: Environmental Maps and Models in a Pastoral Society. NSF, Eighteen Months, \$7,089.

C.J. Eckenrode, ENTOM-G: Seed Treatments and Control of Seed Maggots on Beans. CHIPMAN, One Year, \$1,000.

S.J. Edelstein, BIOCHEM: Quaternary Interactions in Proteins. NSF, Fifteen Months, \$50,000.

G.W. Feigenson, BIOCHEM: Lipid-Protein Interactions & Calcium Transport. DHHS, One Year, \$16,985.

T.D. Fox, GENETICS: Coding/Regulation/Yeast Mitochondrial Genes. DHHS, One Year, \$95,135.

J.D. Francis, RURSOC: National

- Statistical Assessment. EPA, Five Years, \$25,265.
- Q.H. Gibson, BIOCHEM:** Kinetics of Enzymes & Hemoglobin-Ligand Reactions. DHHS, One Year, \$44,253.
- S.P. Gloss, NATRES:** Model Ecosystems to Assess the Biomagnification. DOI, Two Years, \$99,836.
- J.M. Gossett, ENV:** Aluminum-Organic Interactions Influencing Anaerobic... NSF, Two Years, \$50,000.
- S.L.W. Greenberg, ENTOM:** Control of Caste Differentiation in a Primitive Termite. DHHS, One Year, \$14,519.
- S. Gregory, LASSP:** Properties of Adsorbed Oxygen. NSF, Six Months, \$27,900.
- H.H. Hagedorn, ENTOM:** Mosquito Brain Hormone. DHHS, One Year, \$24,618.
- W. Hanel, PHYSBIO:** Mechanism of Corpus Luteum Regression. WATER-LOO U, Two Years, \$49,172.
- M.B. Harrison, PLTPATH:** Nematicide Influence on Xiphinema Damage to Apple Trees. DUPONT, One Year, \$1,000.
- E.W. Hart, TAM:** Testing of Metals Under Multiaxial Loading. NSF, Three Years, \$64,834.
- R. Hoffmann, CHEM:** Department of Chemistry Grant. ROHM, One Year, \$7,000.
- J.R. Houck, CRSR:** 3HE Bolometer System. NASA, Sixteen Months, \$46,000.
- A.T. Jagendorf, PLNTBIO:** Membrane Associated Phosphorylation. DHHS, One Year, \$60,853.
- H.H. Johnson, MSC:** Interdisciplinary Materials Research. NSF, Two Years, \$180,000.
- E.H. Jorden, SUMMER:** Summer Program in English. INT'L HSE JAPAN, Three Months, \$18,610.
- G.M. Kahin, GOVT:** The Character and Consequences of Amer Pol Intev in Seas. NEH, Nineteen Months, \$20,067.
- J.W. Kelley, NATRES:** Incorporating Wildlife Enhancement Practices in Private. USDA, One Year, \$23,713.
- P.M. Kintner, EE:** Analysis of Plasma Wave Data from the Siple Sounding... MARYLAND U, One Year, \$8,745.
- D.L. Kohlstedt, MATSCI:** Stress Analysis of a Deeply Eroded Analog of the San... DOI, Two Years, \$61,052.
- F.H. Kulhawy, STRUC:** Coastal Structures Construction Manual. SUNY RF, Twenty Months, \$14,542.
- R.W. Langhans, FLOR:** Microprocess and Monitoring and Control of Greenhouse. GLOECKNER, One Year, \$5,000.
- T. Leavitt, MUSEUM:** Abstract Expressionist Catalog. NEA, One Year, \$15,000.
- C.A. Lee, EE:** Constant Voltage Impatt Diode Development. DOD, Two Years, \$15,000.
- G. Levine, RURSOC:** Determinants of Developing AID, Five Years, \$89,753.
- G.E. Likens, E&S:** Hydrologic-Nutrient Cycle Interaction in Small Undisturb. NSF, One Year, \$177,149.
- D.L. Linscott, AGRON:** Fusilade Effects on Grassy Weeds. ICI, One Year, \$500.
- R.C. Loehr, AGENG:** Earthworm Stabilization of Organic Residues Derived. NSF, Eighteen Months, \$180,016.
- R.E. McCarty, BIOCHEM:** Predoc Training/Cellular & Molecular Biology. DHHS, One Year, \$169,729.
- J.O. McClain, SLOAN PROGRAM:** Graduate Programs in Health Administration. DHHS, One Year, \$33,750.
- R.E. McDowell, ANSCI:** Wild Game Ranch Project in Kenya. TORTUGA, One Year, \$11,230.
- R. McGinnis, SASS:** Networks of Basic & Applied Research Comm in Agriscience. NSF, Three Years, \$15,747.
- D.D. McGregor, MICRO-VET:** Antiviral Activity of Human Interferon. SCHERING, Four Months, \$19,391.
- R.J. MacIntyre, GENETICS:** Nonsense Mutants at A-Glycerophosphate Dehydrogenase. DHHS, One Year, \$47,399.
- R.J. MacIntyre, GENETICS:** Genetics - NRSA - Doug Cavener. DHHS, One Year, \$19,040.
- R.J. MacIntyre, GENETICS:** Predoc Training in Genetics. DHHS, One Year, \$40,469.
- P.L. Marks, E&S:** Population Ecology of *Alnus rugosa*. NSF, One Year, \$1,300.
- J.F. Metz, INTAG:** Development of USP School of Agriculture. HAWAII U, Six Months, \$229,200.
- J.K. Moffat, BIOCHEM:** Proteins of Physiological Interest: Structure-Func-
- tion. DHHS, One Year, \$41,015.
- R.A. Morse, ENTOM:** Vespid Venom Collection. DHHS, One Year, \$28,364.
- U. Neisser, PSYCH:** Training Grant Comprehensive Cognitive Psychology. DHHS, One Year, \$43,515.
- G. Nemethy, CHEM:** Aging: Conformational Changes of Collagen. DHHS, One Year, \$25,942.
- N. Norcross, CLINSCI:** Control of Coliform Mastitis by Immunization. O'CONNOR, One Year, \$27,319.
- N.L. Norcross, CLINSCI:** Eval of *Staphylococcus aureus* Vaccine/Bovine Mastitis. USDA, Three Years, \$104,283.
- F.M. Noronha, MICRO-VET:** Serotherapy/Virus-Induced Feline Sarcoma/Leukemia. DHHS, One Year, \$98,135.
- D. Pimentel, ENTOM:** An Assessment of Benefits and Risks of using Crop and... DOE, Eighteen Months, \$105,038.
- T.R. Podleski, NB&B:** Soluble Nerve Factors Regulating Muscle Maturation. DHHS, One Year, \$54,410.
- K.S. Porter, CER:** Development of a Groundwater Management Plan for NYS. NYS, Twenty Months, \$61,000.
- L. Que, CHEM:** Non-Heme Iron Dioxigenases-Structures and Mechanism. DHHS, One Year, \$105,472.
- M.E. Richmond, NATRES:** Habitat Management and Resource Values. NYS, Two Years, \$10,000.
- C.G. Rickard, PATHO:** Animal Diseases Diagnostic Laboratory Services Contract. NYS, One Year, \$646,816.
- M.M. Salpeter, NB&B:** Functional Ultrastructure of the Nervous System. DHHS, One Year, \$42,893.
- M.M. Salpeter, NB&B:** Cellular and Molecular Neurobiology. DHHS, One Year, \$33,330.
- G. Salton, COMP SCI:** Mathematical Models in Information Retrieval. NSF, Two Years, \$132,054.
- S.L. Sass, MATSCI:** Diffraction Microscopy Studies of the Structure of... DOE, One Year, \$109,900.
- F.W. Saul, ARCH:** Hands on Steel Design Program. AMER STEEL, Eighteen Months, \$1,030.
- H.A. Scheraga, CHEM:** Equilibria in the Fibrinogen-Fibrin Conversion. DHHS, One Year, \$39,398.
- B.E. Sheffy, MICRO-VET:** Nutrition & Metabolism of the Geriatric Dog. GEN'L FOODS: One Year, \$45,500.
- M.L. Shuler, CHEM-E:** Aerobic Biological Waste Treatment Closed Ecological... NASA, Thirty Months, \$59,960.
- B.M. Siegel, AEP:** Digital Image Processing of High Resolution Electron... NSF, Three Years, \$100,050.
- M.E. Sorrells, PLTBRD:** Introgression of Diploid and Tetraploid Avena Species. USDA, Three Years, \$61,600.
- B.C. Tennant, CLINSCI:** Diarrheal Diseases of Neonatal Calves (Calf Scours). AGWAY, Three Years, \$10,000.
- J.F. Timoney, MICRO-VET:** Vaccine Pot. of M Protein Rich Extracts of S Equi/Horse. USDA, One Year, \$43,767.
- H.C. Torng, EE:** Graduate Student Research. RCA, One Year, \$27,430.
- H.D. Van Eetten, PLTPATH:** Phytoalexins in Relation to Mechanisms of Plant. ROCKEFELLER, Four Years, \$39,420.
- A.R. Van Wambeke, AGRON:** Soil Taxonomy Newsletter, Translation, and Audio Visual. USDA, One Year, \$79,526.
- D.B. Zilversmit, NUTRSCI-AG:** Plasma Cholesterol Ester Exchange (Transfer) Activity. DHHS, One Year, \$15,736.
- The Office of Sponsored Programs announces the following new grants and contracts for the Ithaca and Geneva units of the University, during the month of August 1981.**
- J.R. Aist, PLTPATH:** Cell Wall Appearances and Plant Disease Resistance. NSF, One Year, \$30,000.
- A.C. Albrecht, CHEM:** Basic Photoelectric Studies in Organic Condensed Phase. DHHS, One Year, \$44,818.
- G. Armbruster, NUTRSCI-HE:** Dev Lab Test/Eval Performance Char/Microwave Ovens. TOSHIBA, One Year, \$28,842.
- D.G. Ast, MATSCI:** Mechanical Properties of Metallic Glasses. DOD, One Year, \$39,041.
- B.A. Baird, CHEM:** Structure-Function Relationships of the IGE Receptor. DHHS, One Year, \$89,325.
- M. Barazangi, GEOSCI:** Seis-
- motectonics of the Himalayan & Zagros Arcs. NSF, One Year, \$50,000.
- D.M. Bates, BAILEY:** Studies toward a Genera *Palmarum*. NSF, One Year, \$67,840.
- D.E. Bauman, ANSCI:** Regulation of Efficiency of Nutrient Use in Animal. NSF, One Year, \$46,244.
- A. Bensadoun, NUTRSCI-AG:** Lipid Transport in Avian Species. DHHS, One Year, \$77,983.
- E.N. Bergman, PHYSBIO:** Carbohydrate & Ketone Body Metabolism. DHHS, One Year, \$118,829.
- B. Bowser, GRAD SCH:** Graduate & Professional Opportunities Fellowship Program. ED, One Year, \$126,000.
- J.S. Brown, NYC:** South Bronx Development Org. Home Purchaser's Asst Prog. LISC, Fifteen Months, \$12,000.
- L.D. Brown, MATH:** Mathematical Statistics. NSF, Eight Months, \$12,000.
- K. Burdette, ECON:** Collaborative Res on Informa Uncer & Lab Market Equilib-. NSF, One Year, \$40,600.
- J.M. Calvo, BIOCHEM:** Reg & Evol Rel Betw Ivlvhi & Leubed Gene Clusters. NSF, Two Years, \$25,000.
- R.B. Campenot, NB&B:** Control of Axon Development by Nerve Growth Factor. DHHS, One Year, \$12,358.
- A. Casarett, GRAD SCH:** Fulbright-Hays Doctoral Dissertation Research Abroad. ED, Eighteen Months, \$133,970.
- W. Castleman, PATHO:** Bovine Respiratory Syncytial Virus Infection in Calves. USDA, Three Years, \$149,768.
- D. Chapman, AGECE:** Utility Financial Analysis in the Urge-EPA Simulation. ILLINOIS U, Fifteen Months, \$24,633.
- M. Cochran, HDFS:** National Dissemination of the Family Matters Experience. KELLOGG, Two Years, \$119,305.
- H.D. Craft, NAIC:** National Astronomy & Ionosphere Center. NSF, One Year, \$80,000.
- W.F. Croney, SWCC:** Soil & Water Conservation Committee 81-82 Support. NYS, Six Months, \$49,900.
- W.E. Cross, Jr., ASRC:** Conf on Empirical Research in Black Psychology. FORD FDN, One Year, \$810,801.
- B.R. DeYoung, ADMIN:** Enhancing Wave Protection with Floating Tire Breakwaters. SUNY RF, One Year, \$8,000.
- P.T. Deboer, MECHAERO:** Pyrolysis of Coal-Derived Fuels using Laser Power. DOE, Three Years, \$98,335.
- A. Demers, COMP SCI:** Invest in Lang Design Formal Semantics & Prog Verificatn. NSF, Two Years, \$88,897.
- R.R. Dietert, POULSCL:** Hematopoietic Development and Differentiation. NSF, One Year, \$40,000.
- J. Doris, HDFS:** NYS Child Protective Services Training Institute. NYS, Two Years, \$474,500.
- L.F. Eastman, EE:** GaInAs Double Heterostructure Laser Grown by MBE. NASA, One Year, \$53,000.
- T. Eisner, NB&B:** Secretions of Arthropods. DHHS, One Year, \$65,204.
- T. Eisner, NB&B:** Biologically Active Natural Products from Mushrooms. CIBA-GEIGY, One Year, \$5,000.
- D.T. Farley, EE:** Aeronautical & Meteorological Research-Jicamarca Radio... NSF, Two Years, \$180,700.
- D.T. Farley, EE:** Studies of the Arecibo Atmosphere. NSF, One Year, \$107,200.
- D.T. Farley, EE:** Studies of Planetary Magnetospheres. NASA, Eleven Months, \$78,000.
- G. Fields, LABOREC:** Discrete Data Analysis of the Retirement Decision. DHHS, One Year, \$44,429.
- G.R. Fink, BIOCHEM:** American Cancer Society Research Professorship. AMER CANCER, One Year, \$5,000.
- D.B. Fitchen, PHYSICS:** Development of New Courses in Physics Department. IBM, Two Years, \$25,000.
- O.D. Forker, AGECE:** Milk and Dairy Product Promotion and Consumption. NYS, Three Years, \$224,500.
- J.E. Fortune, PHYSIO:** Regulation of Ovarian Follicular Estradiol Production. DHHS, One Year, \$66,373.
- J.W. Gair, MOD LANG&LING:** Foreign Curriculum Consultant. ED, One Year, \$15,798.
- W.C. Ghiorso, MICRO-AG:** Distribution and Activities of Microorganisms in... OKLAHOMA U, One Year, \$80,000.
- K. Gottfried, LNS:** Exchange Visitor Program. MAX KADE, One Year, \$1,640.
- K.E. Gubbins, CHEM-E:** Statistical Mechanics of Molecular Liquid In-
- terfaces. NSF, One Year, \$35,000.
- H.H. Hagedorn, ENTOM:** Cloning and Analysis of the Mosquito Vitellogenin Gene. DHHS, One Year, \$53,506.
- R.R. Hahn, AGRON:** Research/Demonstration Program with Labeled and... UNION CARBIDE, One Year, \$500.
- B.P. Halpern, PSYCH:** A Temporal Analysis of Human Taste Judgments. NSF, Two Years, \$54,812.
- Y.D. Hang, FOODSCI-G:** NKPA Kraut Waste Treatment. NATL KRAUT PACK, One Year, \$500.
- J. Hartmanis, COMP SCI:** Departmental Grant to Support New Science Efforts. IBM, Two Years, \$25,000.
- M.O. Harwit, CRSR:** Far Infrared Spectral Line Observations. NASA, Three Months, \$5,885.
- M.O. Harwit, CRSR:** Construction and Testing of Stressed Gallium-Doped... NASA, Three Months, \$20,000.
- G. Hausfater, BIOCHEM:** Longitudinal Studies of Primate Societies. NSF, Two Years, \$22,940.
- G.P. Hess, BIOCHEM:** Relationships Between Protein Structure & Function. DHHS, One Year, \$52,693.
- G.P. Hess, BIOCHEM:** Chemical Reactions in Transmission of Nerve Impulses. DHHS, One Year, \$74,166.
- P.C. Hinkle, BIOCHEM:** Energy Conservation in Heart Mitochondria. DHHS, One Year, \$29,436.
- C. Hirschman, CIS:** Asian Americans: Immigration & Adaptation. DHHS, One Year, \$45,341.
- R.B. House, EXT:** Teaching Grant & Traineeships in Rehab Fac Admin - Yr 3. ED, One Year, \$63,725.
- R.B. How, AGECE:** Direct Marketing Education in New York. NYS, Seven Months, \$39,422.
- H.C. Howland, NB&B:** Refractive Studies of Eyes Biochemistry. DHHS, One Year, \$10,887.
- R.H. Hoy, NB&B:** Sensory Physiology & Biophysics - NRSA - WOHLERS. DHHS, One Year, \$19,040.
- B.L. Isacks, GEOSCI:** Geotectonic Cross-Sections of the Segmented Central Andre. ACS-PRF, Three Years, \$45,000.
- A.T. Jagendorf, PLNTBIO:** Photosynthetic Membrane Growth. USDA, Two Years, \$110,000.
- G.H. Jirka, ENV:** IPA-Baroclinic Circulations & Boundary Mixing Reservoirs. DOD, One Year, \$350.
- H.H. Johnson, MSC:** Liquefier for Materials Physics. NSF, One Year, \$87,600.
- B.G. Jones, PURS:** Third International Conf Economic Aspects of Earthquakes. NSF, Six Months, \$5,000.
- E.D. Jones, PLTPATH:** Funding of Certain Uihlein Farm Positions. NYS, Three Years, \$23,572.
- D.E. Karig, GEOSCI:** Studies in East Asia Tectonics and Resources. NSF, Five Months, \$4,000.
- M.C. Kelley, EE:** Multiexperimental Studies of Wind & Wave Patterns in... NSF, One Year, \$76,800.
- J.E. Kinsella, FOODSCI:** Regulation of Phospholipid Synthesis in Animals. NSF, Two Years, \$55,590.
- S. Kirmeyer, ORGBEHAV:** Employee Reactions to Job Demands in Service Settings. NSF, Two Years, \$36,366.
- J.P. Kramer, ENTOM:** Studies on Entomophorales as Biological Control Agents. WHO, Five Months, \$9,000.
- F.H. Kulhawy, STRUC:** Behavior of Drilled Shaft Foundations during Undrained. EPRI, Five Months, \$37,436.
- J.P. Lassoie, NATRES:** Forest Resources Assessment. NYS, Two Months, \$3,720.
- S. Leibovich, MECHAERO:** Dynamics of the Ocean Mixed Layer & Langmuir Circulation. NSF, One Year, \$38,836.
- S. Levin, CER:** Ecosystems Research Center Cooperative Agreement. EPA, Two Years, \$360,000.
- A. Lewis, AEP:** Primary Events in Vision. DOD, One Year, \$15,000.
- R.M. Lewis, PATHO:** Training Program in Veterinary Pathology. DHHS, One Year, \$103,715.
- D.L. Linscott, AGRON:** Furan Effects on Pests in Direct Planted Alfalfa. FMC, One Year, \$1,000.
- R.F. Lucey, AGRON:** Soil Characterization of Agricultural Lands. NYS, One Year, \$25,000.
- J.L. Lumley, MECHAERO:** Study of Turbulent Boundary Layer Structure Through... NASA, Three Years, \$44,800.
- M.B. McBride, AGRON:** Interactions of Metal-Organic Complexes with Clay. NSF, Two Years, \$19,600.
- W.E. Mai, PLTPATH:** General Nematode Laboratory Identification Services. NYS, Eight Months, \$5,000.
- L.E. Martin, LIBR:** Strengthening Research Library Resources Program. ED, Fifteen Months, \$284,639.
- R.T. Masson, ECON:** Market Power Antitrust & Regulation Policy St of Milk Mk. NSF, Two Years, \$75,921.
- J. Meinwald, CHEM:** NRSA for Thomas W. Bell. DHHS, One Year, \$19,040.
- G.H. Morrison, CHEM:** Ion Microscopy in Biology and Medicine. DHHS, One Year, \$21,124.
- G.H. Morrison, CHEM:** Micro-characterization of Solid State Materials... DOD, Two Years, \$1,500.
- M.A. Morrison, NUTRSCI-HE:** Nutrition in Utilization of Caprolactam, Role of... DHHS, One Year, \$33,519.
- B.J. Mueller, HSS:** Short & Long Term Training for DSS County Staff-Year 2. NYS, Two Years, \$605,058.
- L.M. Naylor, AGENG:** Use of Brewery Sludge as a Fertilizer/Soil Conditioner. MILLER BREW, Sixteen Months, \$7,138.
- S.K. Obendorf, DEA:** Thermal Transmittance for Four Malden Fabrics. MALDEN MILLS, One Month, \$400.
- E.A. Oitenacu, ANSCI:** Studies on the Genetics and Physiology of Dairy Goats. SOUTHERN VT, Two Years, \$1,000.
- R.L. Plaisted, PLTBRD:** Golden Nematode Disease-Resistant Potato Variety. NYS, Two Years, \$28,900.
- T.R. Podleski, NB&B:** Soluble Nerve Factors Regulating Muscle Maturation. DHHS, One Year, \$16,920.
- R.M. Pool, POMOVIT-G:** National Concord Grape Grant. NATL GRAPE, One Year, \$1,000.
- L. Que, CHEM:** Non-Heme Iron Dioxigenases-Structures and Mechanism. DHHS, One Year, \$42,460.
- A. Quester, LABOREC:** Utilization of Men & Women in SIE Occupations. NSF, Twenty-One Months, \$70,668.
- E. Racker, BIOCHEM:** The Plasma Membrane in Normal & Cancer Cells. DHHS, One Year, \$299,238.
- C.G. Rickard, PATHO:** Laboratory for Marine Animal Health. DHHS, One Year, \$121,248.
- W.L. Roelofs, ENTOM-G:** Pheromone Biosynthesis in the Leafroller Moth. NSF, One Year, \$50,000.
- A.L. Ross, GOVT:** HH Humphrey Doct Fellowship from US Arms Control & Disarm. ACDA, One Year, \$5,726.
- C.L. Schofield, NATRES:** Sensitivity of Natural Areas in Rocky Mountains to Acid. Colorado St U, Eighteen Months, \$14,545.
- R. Schwartz, NUTRSCI-HE:** Stable 26 MG in Measurement of MG Utilization. DHHS, One Year, \$140,540.
- A.J. Sievers, LASSP:** Infrared and Optical Properties of Clean and... Surfaces. NSF, One Year, \$56,600.
- D.M. Soderlund, ENTOM-G:** Mode of Action of Pyrethroid Insecticides. DHHS, One Year, \$17,405.
- R.W. Sudan, PLASMA:** Generation & Focusing of Pulsed Intense Ion Beams. DOE, One Year, \$249,360.
- B.C. Tennant, CLINSCI:** Acute Diarrheal Diseases of Neonatal Calves: Non-antibiotic. USDA, Two Years, \$59,231.
- P.C. Thomas, CRSR:** Study of Particle Size Sorting in Martian Wind Streaks. NASA, Two Years, \$25,190.
- A.R. Van Wambeke, AGRON:** Soil Taxonomy Newsletter, Translation, and Audio Visual. USDA, One Year, \$1,964.
- A.R. Van Wambeke, AGRON:** Production of Soil Taxonomy Newsletter. USDA, One Year, \$20,287.
- W.W. Webb, AEP:** Fluctuations Diagnostics in Submicron Conductors. NSF, Eight Months, \$8,000.
- C.F. Wilkinson, ENTOM:** Mode of Action of Inhibitors of Microsomal Oxidation. DHHS, One Year, \$62,060.
- C. Wolcott, ORNITH:** Experimental Analysis of Orientation. Two Years, \$115,000.
- J.U. Wolff, MOD LANG&LING:** Summer Language Training Program in Indonesia. ED, Four Months, \$40,000.
- T.A. Zitter, PLTPATH:** Potential Control of Maize White Line Mosaic Virus. DUPONT, One Year, \$500.

Engineering Education Gets Corporate Grants

Exxon Foundation Will Support Five Here

Cornell is a major recipient of support from a \$15 million grant program announced last month by the Exxon Education Foundation. The program is intended to aid engineering education in the United States.

A total of 66 colleges and universities will receive grants through the program, believed to be the largest of its kind ever undertaken by a corporate foundation.

Cornell will receive three \$50,000 Exxon Teaching Fellowships and two \$100,000 salary support grants for junior faculty in engineering.

The value of the Exxon grants received by Cornell places the university seventh overall among the 66 recipients and third among private universities included in the program.

A total of 100 three-year teaching fellowships and 100 five-year salary support grants were awarded to the 66 colleges and universities selected for the Exxon program.

Cornell will receive Exxon Teaching Fellowships for use in the schools of chemical engineering, civil and environmental engineering and mechanical and aerospace engineering. The schools of chemical engineering and operations research and industrial engineering will receive faculty support grants.

Exxon chairman C.C. Gawin Jr. said the need for the new and unusual direct grant program stems from the active recruitment of graduate engineers by business and industry. Salaries paid in private industry often discourage students from seeking advanced degrees and

holding junior faculty positions.

The teaching fellowships are intended to increase the number of students in graduate programs leading to the Ph.D. and teaching careers.

In a letter to Gawin Cornell President Frank Rhodes expressed his appreciation for Exxon's foresight.

"This new grant program defines a crucial national problem, it proposes two vitally important remedies and then it targets the solution with precision and with great insight," Rhodes said. "It is the most far-sighted example of corporate philanthropy that I can remember."

Beginning in 1982-83, each of the three teaching fellows selected by Cornell will have all tuition and fees paid through the Exxon grant and will receive a stipend of \$12,000 the

first year, \$13,500 the second and \$15,000 the third.

The faculty assistance grants, also to begin in 1982-83, are intended to encourage young Ph.D.s to remain in teaching while they are at the beginning of their careers and most vulnerable to job offers from industry.

The schools of chemical engineering and operations research and industrial engineering at Cornell will receive \$20,000 a year for five years, to be used as salary supplements for junior, untenured faculty. Recipients will be selected by the Cornell departments.

The special one-time \$15 million grant, funded by the Exxon Corp. as part of its centennial to be observed in 1982, will be in addition to the Exxon Foundation's regular pro-

grams, which will total \$22 million in 1981.

At Cornell, the foundation has provided support for the Program for Improvement of Undergraduate Education administered by the College of Arts and Sciences, the Environmental Values Program in the New York State College of Agriculture and Life Sciences, and numerous departmental grants and graduate fellowships in the physical sciences and engineering.

The Exxon Education Foundation was established in 1955 by the Exxon Corp. and is a nonprofit corporation aiding education primarily in the United States.

People

Philosophy Institute Honors Cornell's Max Black

Max Black, the Susan Linn Sage Professor of Philosophy and Humane Letters, Emeritus, has become the second American to be elected president of the International Institute of Philosophy since the organization was established in 1937.

Black will serve a three-year term. In addition to supervising the IIP headquarters in Paris, he will be particularly concerned with annual congresses to be held in India, 1982, Canada, 1983 and either Romania or Hungary in 1984.

The international academy is limited by statutes to a total of 100 members, exclusive of those who on reaching the age of 70 become "hors quota." Currently there are 104 members, of whom nine are Americans.

Activities of the institute include an international bibliography of philosophy and extensive translations of philosophical classics. The IIP also regularly publishes international surveys ("chroniques") of research in the various branches of philosophy.

The institute was founded at the Descartes Congress in Paris under the patronage of the International Institute of Intellectual Co-operation. The other American to have served as president (1953-57) is Richard McKeon, professor of philosophy at the University of Chicago.

Since attaining emeritus standing in 1977, Black has remained active in his field as author, lecturer and administrator. At the time of Black's retirement, Harry Levin, then dean of Cornell's College of Arts and Sciences, said "Max Black has been one of the rare members of the faculty, who, in any generation, define the intellectual level of the college and the university. He has been a world-famous philosopher, teacher and author, and he has been outspoken and articulate in expressing his views about the nature of the university."

Born in Russia, educated in England, Black has been an American citizen since 1948. He holds two doctoral degrees from the University of London—a Ph.D. in mathematical logic, and a D.Lit. degree (philosophy).

Black taught at the University of

London from 1936 to 1940 and at the University of Illinois from 1940 to 1946. He became the Susan Linn Sage Professor of Philosophy at Cornell in 1954, eight years after joining the faculty.

In 1965, Black became the first director of Cornell's Society for the Humanities, a position he held until 1971. Since that date he has remained a senior member of the Cornell program on Science, Technology and Society. He was the first chairman of Cornell's Program for Andrew D. White Professors-at-Large (1965-78).

Paul L. Sawyer, a faculty member since 1975, has been named an associate professor of English. Sawyer's field of interest is Victorian literature, specifically non-fiction Victorian prose. His research has focused on the work and life of Ruskin. A member of the poetry staff on Cornell's literary magazine, "Epoch," Sawyer has also served on the Arts College Admissions Committee and the Department of English's Graduate Admissions Committee.

John G. Seeley, a nationally recognized plant scientist here, is the recipient of the 1980 Silver Medal from the Massachusetts Horticultural Society.

He was honored for his research accomplishments, particularly those dealing with plant nutrition, growth regulators, automatic watering, and photoperiodism critical for production of numerous types of horticultural crops.

Seeley is a professor of floriculture and ornamental horticulture in the State College of Agriculture and Life Sciences.

This past summer, Seeley was named president-elect of the American Society for Horticultural Sciences (ASHS); he is expected to take the helm of this national organization next year. ASHS honored Seeley in 1970 by electing him a Fellow of the Society.

John M. Najemy, a faculty member since 1975, has been named an associate professor in the Department of History. Prior to coming here, Najemy was an assistant professor and instructor at Harvard University from 1972 to 1975.

Pierre Clavel, associate professor in the Department of City and Regional Planning in the College of Architecture, Art and Planning, has been elected professor. Clavel's specialty is in the role of political and community movements in shaping planning method and practice, a topic he has written about in the United States and Western Europe. He has also been active in the development of Planners Network, a national organization of planners and community organizers. Clavel joined the Cornell faculty in 1967 after serving two years on the faculty of the University of Puerto Rico.

Andrew Ramage, associate professor in the Department of History of Art and Archaeology, has been elected chairman of that department for a three-year term. He succeeds Robert Calkins. Ramage has participated in a number of archaeological excavations in England, Greece and Turkey. His field is classical archaeology. Before joining the Cornell faculty in 1972, Ramage was a lecturer at the University of Massachusetts in Boston and at the University of Michigan and an assistant professor at UMass in Boston from 1970 to 1972.

W. Wolfgang Holdheim, the Frederic J. Whiton Professor of Liberal Studies, has been elected chairman of the Department of Comparative Literature for a three-year term. He succeeds William J. Kennedy. Holdheim has held a Guggenheim Fellowship and a Senior Fellowship of the National Endowment for the Humanities. He is co-editor of "Arcadia," a scholarly journal of comparative literature studies. Holdheim joined the Cornell faculty and became chairman of the Department of Comparative Literature in 1969. He earned his bachelor's and master's degrees at the University of California at Los Angeles and his Ph.D. degree at Yale University.

William B. Streett has been elected professor with tenure in the School of Chemical Engineering and on Sept. 1 was appointed associate dean of engineering for graduate study. At Cornell since 1978, Streett has established an international reputation as a leader in both the experimental and theoretical stud-

ies of high pressure chemical physics, and is the author of more than 60 scientific papers in this field.

During 1969-78, while serving as Assistant Dean for Academic Research at the United States Military Academy at West Point, Streett founded and was the first director of the Science Research Laboratory at West Point. He retired from the Army in 1978 with the rank of Colonel. Since coming to Cornell he has been responsible for teaching the required undergraduate course in chemical engineering thermodynamics.

Sydney Shoemaker, the Susan Linn Sage Professor of Philosophy, has been elected acting chairman of the Department of Philosophy for the fall 1981 semester while chairman David Lyons is on study leave. Shoemaker served as chairman of the department from 1975 to 1978. He joined the Cornell faculty as an assistant professor in 1961. He was

previously an instructor in philosophy at Ohio State University and has taught at Rockefeller University.

Leslie E. Trotter Jr. has been elected associate professor with tenure in the School of Operations Research and Industrial Engineering. Currently the associate director of the school, Trotter's specialty is in the field of theoretical combinatorial optimization, specifically polyhedral combinatorics. He has taught a wide variety of courses at both the undergraduate and graduate levels: linear programming, optimization, mathematical programming, scheduling theory, dynamic programming, nonlinear programming and combinatorial analysis. In 1977, he was awarded the Cornell Operations Research Industrial Engineering Award for Excellence in Undergraduate Teaching. He was co-winner of the award this year. He has been on the faculty since 1975.

Council Will Sponsor Artists' Visits Here

The Cornell University Council of the Creative and Performing Arts, in a first step toward establishing support that will bring distinguished visiting artists here, will co-sponsor the appearances of eight artists in 1981-82.

Endo Suanda — musician, mask-carver and dancer — from Indonesia, who gave a performance of Indonesian masked dance here in the spring, will be at Cornell the entire 1981-82 year.

Other artists scheduled for this academic year are poets Chris Levinson and Michael Ondaatje and author Marie-Claire Blais, all part of a Canadian writers series; photographer Van Deren Coke, artist David Hackney, sculptor Alice Aycock and theater director Marshall Oglesby.

Coke, Hackney and Aycock are co-sponsored by the council and Cornell's Department of Art; Oglesby is co-sponsored by the Department of Theatre Arts.

Suanda will be associated with

Cornell's Southeast Asia Program and the departments of music, Asian studies and theatre arts. During the year he will perform and work with the Cornell Gamelan Ensemble and assist with Asian studies courses in music, dance and theater.

Suanda will perform on Nov. 13 with Monica Bethe, a visiting associate professor here from Kobe College in Japan where she is a professor and artist in the music, dance and mask carving of Japanese Noh drama.

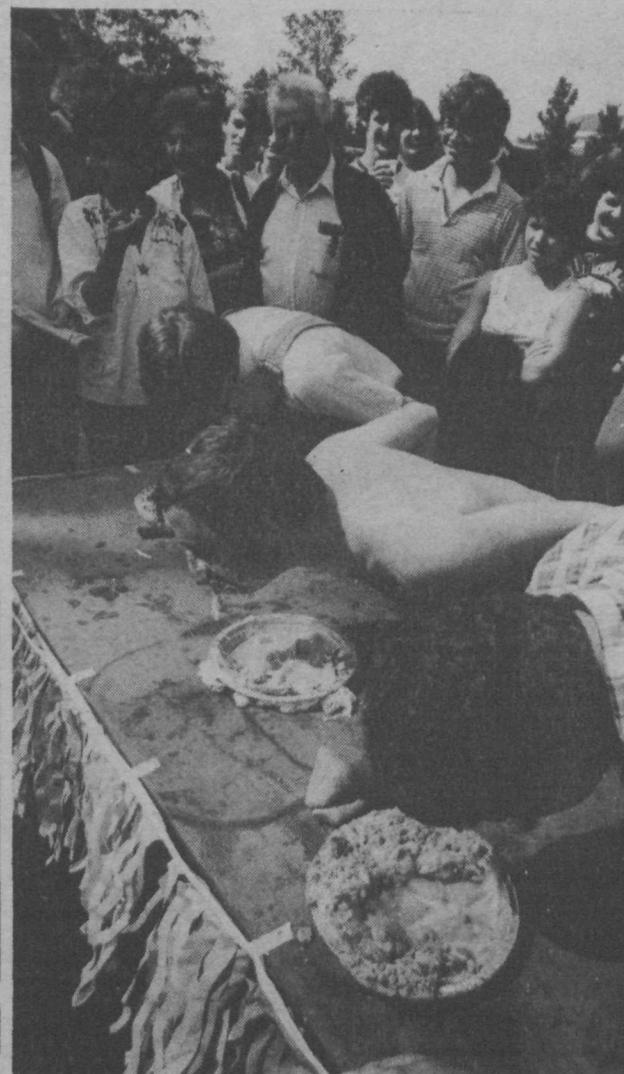
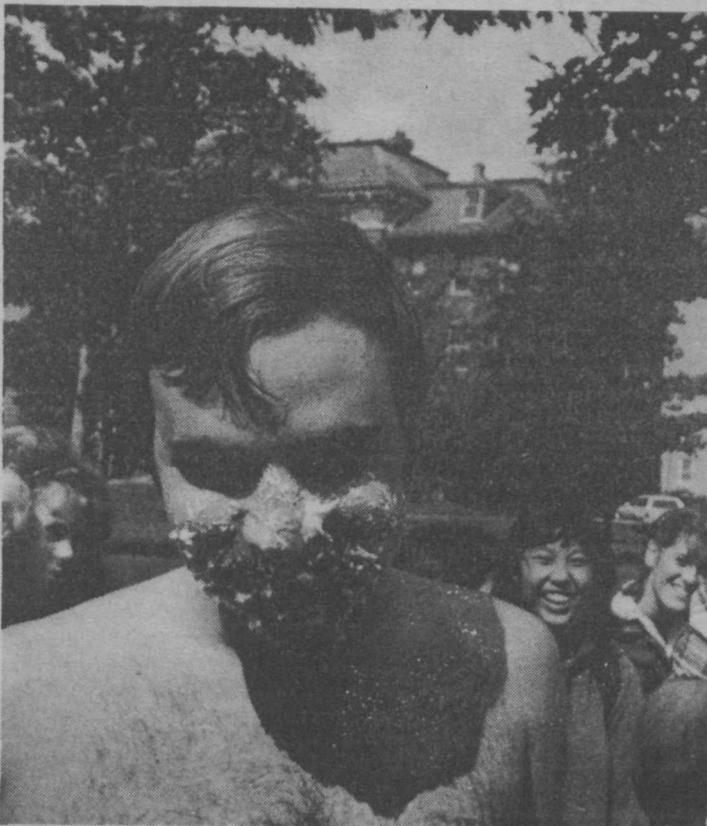
Details of the Nov. 13 performance, as well as announcements of other public performances by visiting artists, will be issued in the near future.

It is hoped Suanda's year-long stay will be the first in what may "ultimately be a program that will bring artists here for more than brief appearances," according to Anna Geske, program director for the council.



Some Winning Techniques At An Ag Quad Festival

When students and others got together for an Activities Fest on the Agriculture Quadrangle a couple Saturdays ago, a pie-eating contest was part of the program. Here are some of the styles of attack, and some of the results.



Brief Reports

Panhel Gives Money For Rape Film

Cornell's Panhellenic Council recently presented William E. McDaniel, director of public safety, with a check for \$435 to be used for the purchase of a rape awareness film.

The film, "This Film is About Rape," is a 30-minute documentary which was made by women for women. It will be used as part of the rape prevention programs which are conducted by Public Safety's Crime Prevention Unit.

The monies for the purchase of the film were raised by Panhel through the sale last year of boutonnieres for formals.

The film will be available free of charge for any group to use through Cornell's Crime Prevention Unit, phone 256-7302.

Career Fair Planned For Ag. Students

A career fair for graduate and undergraduate students in the College of Agriculture and Life Sciences will be held 10 a.m.-3 p.m. Friday, Oct. 2, in the South Reading Room, Mann Library.

Students will have the opportunity to explore various career options by talking to alumni representing a variety of occupations including a wildlife biologist, plant geneticist, dairyman and a farm insurance sales representative. There will also be alumni participating who are involved with governmental and educational agencies.

The career fair has been organized by the Office of Career Planning and Placement at the College of Agriculture and Life Sciences, the Cornell collegiate chapter of Future Farmers of America and AgPAC, the agricultural student positive action council.

For further information call Connie Young or Sharon Radcliffe, 256-2215.

Horse Symposium Here in November

Authorities in the horse industry will take part in a two-day symposium here in November.

Sponsored by the Student

Horsemen's Association at Cornell, the third annual symposium — Nov. 14 and 15 — will include a short course for horse owners.

Also on the program is a forum featuring veterinarians discussing their practices, and a dressage demonstration. The Vet Forum is slated for Saturday afternoon (Nov. 14), and the dressage demonstration by Kathy McWilliams of Bedford is scheduled for Sunday (Nov. 15). A banquet, followed by musical entertainment, will be held Saturday night.

Among the speakers will be several faculty members from the State College of Veterinary Medicine and the State College of Agriculture and Life Sciences.

Foreign Students Plan A Feast

The International Students Planning Board will sponsor an International Friendship Dinner at 6 p.m. Saturday, Oct. 3, in the One World Room of Anabel Taylor Hall.

Tickets, at \$3 each are on sale in Willard Straight Hall and at the International Living Center.

Foods from all corners of the world will be served and classical guitarist Karl Wolff will perform.

'Bargaining' Group Plans a Teach-In

The Faculty for Fair Bargaining will sponsor a teach-in entitled "Strikes, Unions, and Cornell" Monday, Oct. 5, from 12 noon to 3 p.m., in the Willard Straight Hall Memorial Room on the Cornell campus. The purpose of the teach-in, its sponsors said, is to inform the Cornell and Ithaca communities about the status of negotiations between the United Auto Workers (UAW) and the university administration, as well as to place those negotiations in the larger context of national and international labor and economic issues.

The program, moderated by Mary Beth Norton, professor of history, will consist of a series of brief talks by members of the Cornell University faculty and the UAW, followed by a showing of "Worker to Worker," a federal government-sponsored film on workers' on-the-job safety hazards. The Singing Bears,

a union group, will provide musical entertainment.

ROTC Units To Hold A Blood Drive

The Army, Navy and Air Force ROTC units at Cornell are sponsor-

ing a Red Cross Blood Drive from 10 a.m. to 3:45 p.m. Monday and Tuesday, Oct. 5 and 6, in Barton Hall.

Donors can register from 11 a.m. to 2 p.m. through Oct. 2 in the main lobby of Willard Straight Hall. Walk-ins will also be welcome during the days of the drive.

Gov. Carey Supports Extension Of UAW Strike Deadline Here

New York Gov. Hugh L. Carey has sent a message to the university and the United Automobile Workers chapter here asking that the parties agree to a three-week extension of the strike deadline set by the union.

Cornell President Frank Rhodes sent a telegram back to the Governor saying that the university welcomes his "constructive request to the UAW."

Carey noted in his telegram that the extension had been requested by the university from the Saturday, Oct. 3, deadline set last week by the union. Carey said an extension "is greatly to be preferred to a confrontation on the picket line."

Here is the text of the Carey telegram:

"This office has been informed that after months of negotiations the UAW has fixed a strike deadline of October 3. I am also informed that the president of Cornell University has suggested that an additional three weeks at the bargaining table could produce an agreement between Cornell University and UAW. This is greatly to be preferred to a confrontation on the picket lines. Accordingly, I am requesting that the strike deadline be postponed and that negotiations continue for the purpose of reaching a satisfactory collective bargaining agreement."

Here is the text of the return telegram from Rhodes to Carey:

"I welcome your constructive request to the UAW that the strike deadline be postponed. I hope that

the UAW will respond in a positive way to your suggestion. I am confident that with good faith bargaining and good will on both sides we can reach a fair and equitable settlement in the near future. Thank you for the concern you have shown on this important matter."



The last rays of summer?

The Week in Sports

First Soccer Tournament Is Highlight

The first soccer tournament ever held at Cornell, The Cornell Classic, highlights this week's home schedule for Big Red sports. In addition to the soccer tournament, the lightweight football, men's cross country and women's volleyball teams have their home opens this week, and the women's field hockey team has home contests against two of its toughest opponents.

The Cornell Classic features four of the top-ranked teams in the state in Hartwick, Long Island University, Adelphi and host Cornell. Hartwick and the Big Red both earned NCAA playoffs bids last season, while LIU is currently the top-rated team in the state. The tournament will have a bearing on the weekly New York state rankings, and should also help to determine which schools from New York receive NCAA bids.

The Classic will be composed of four games, two each on both Saturday and Sunday. On the first day of competition, Hartwick will meet LIU at 1 p.m., and Cornell will face Adelphi at 3 p.m. On Sunday, Hartwick and Adelphi will play in the first game at 1 p.m., with Cornell and LIU squaring off at 3

p.m. Tournament tickets are priced at \$2 per day for adults, \$1 for students and 50 cents for children 12 and under. Tickets may be purchased at the Teagle Hall ticket office, or on both days of the tournament.

The Big Red lightweight football team opens its 1981 season at 7:30 p.m. Friday on Schoellkopf Field against Army. The game will have special importance for Cornell, as the Cadets won the Eastern Lightweight Football League last season — clinching the league title by nipping the Red, 10-9. In that game, Army preserved the victory by stopping a last-minute drive by Cornell, as the Big Red fell one drive short of sharing the championship with the Cadets. Cornell should be ELFL contenders again this season, since only 11 players are gone from last year's team.

The men's cross country team's opener also will be against Army, at 4:30 p.m. Friday on the Cornell University Golf Course. The meet against the Cadets should be the Big Red's first challenge of the season; Army leads the series between the two schools, 19-15. Cornell looked very impressive in its opening

match of the season, defeating Colgate, 15-49. The victory was an encouraging sign for Big Red coach Jack Warner, who has an extremely young team in 1981.

The Big Red women's volleyball team opens the home portion of its schedule at 6 p.m. Tuesday, when it plays host to Binghamton and Cortland in a triangular match. Cornell leads the series with Binghamton, 8-3-1, but has had more than its share of trouble with Cortland, as the Red Dragons hold a 7-2 advantage in the rivalry. The Red has an experienced, veteran team this season, and opened the campaign in impressive fashion, defeating both St. John Fisher and Elmira College on opening day.

The women's field hockey team entertains two tough foes on the Schoellkopf turf this week: Yale at 10 a.m. Saturday morning and Ithaca College at 7:15 p.m. on Tuesday. Both the Elis and IC are among Cornell's strongest opponents in 1981. Ithaca College, a Division III powerhouse, leads the series between the two schools, 9-1-1, while Yale has defeated the Big Red in the two previous meetings between the two schools.

SAGE CHAPEL

'The Holiest Curiosity'

Huston Smith, the Thomas J. Watson Professor of Religion and adjunct professor of philosophy at Syracuse University, will speak at the 11 a.m. Sage Chapel Interreligious Service on Sunday, Oct. 4. Smith's sermon topic is "The Holiest Curiosity."

Smith will also give a public address on "Beyond the Modern Western Mindset" at 7:30 p.m. that day in the chapel of Anabel Taylor Hall.

Smith, who for 15 years was a professor of philosophy at the Massachusetts Institute of Technology, joined the Syracuse faculty in 1973.

He regards his teaching career as being devoted "to bridging intellectual gulfs: between East and West, between science and the humanities and between the formal education of the classroom and informal education via films and television.

His interest in education beyond the classroom led Smith to produce three series of filmed programs for National Educational Television: "The Religions of Man," "Science and Human Responsibility" (with Arthur Compton), and "The Search for America."

Smith has written over 40 articles and his book on world religions, "The Religions of Man," has sold almost two million copies. His latest book is "Forgotten Truth: The Primordial Tradition."

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.

Comment

Letters for the Chronicle Comment section should deal with campus issues, be within an absolute limit of 300 words in length, not deal in person attacks, should be typewritten, double-spaced, and must be signed.

Editor:

Every one of us has seen pictures or read news stories illustrating the desperate plight of millions of people in Africa, Asia and even on our continent who through no fault of their own are facing starvation and epidemic disease. And probably every one of us wondered if there was not something that he could do to help.

'Oxfam' (founded 39 years ago as 'Oxford Committee for Famine Relief') is an organization that has achieved much in the fight against

famine and sub-human conditions. I do not wish to claim that there are not other, equally effective organizations, but for the following reasons Oxfam seems particularly worthy of support:

1. It gives its help to projects that grow out of local initiative and that promise long-term effects (Equipment for agriculture or irrigation rather than food handouts). 2. It has no political or religious bias. 3. It uses funds efficiently.

Cornell undergraduates and graduate students will mount a campaign for Oxfam. I feel that Faculty and Staff should join in this effort.

If you are interested in helping, please contact me (Office 256-4365, Home 257-7712).

W.H. Fuchs
Professor of Mathematics